SERVICE MANUAL

COMMUNICATIONS RECEIVER	COMMUNICATIONS	RECEIVER
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IC-R20



Icom Inc.

INTRODUCTION

This service manual describes the latest service information for the **IC-R20** COMMUNICATIONS RECEIVER at the time of publication.

This service manual covers each versions.

MODEL	VERSION	AC adapter
	[USA], [EXP-01], [CAN]	BC-149A
IC-R20	[EUR], [EXP-02]	BC-149D
	[UK], [SEA]	_

To upgrade quality, any electrical or mechanical parts and internal circuits are subject to change without notice or obligation.

DANGER

NEVER connect the receiver to an AC outlet or to an external DC power supply that uses more than 6.3 V. This will ruin the receiver.

DO NOT expose the receiver to rain, snow or any liquids.

DO NOT reverse the polarities of the power supply when connecting the receiver.

DO NOT apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. This could damage the receiver's front end.

ORDERING PARTS

Be sure to include the following four points when ordering replacement parts:

- 1. 10-digit order numbers
- 2. Component part number and name
- 3. Equipment model name and unit name
- 4. Quantity required

<SAMPLE ORDER>

1110003200 S.IC TA31136FN IC-R20 RF UNIT 5 pieces 8930062430 Key 2699 Keyboard IC-R20 Chassis 12 pieces

Addresses are provided on the inside back cover for your convenience.



REPAIR NOTES

- 1. Make sure a problem is internal before disassembling the receiver.
- 2. **DO NOT** open the receiver until the receiver is disconnected from its power source.
- 3. **DO NOT** force any of the variable components. Turn them slowly and smoothly.
- 4. DO NOT short any circuits or electronic parts. An insulated turning tool MUST be used for all adjustments.
- 5. **DO NOT** keep power ON for a long time when the receiver is defective.
- 6. **READ** the instructions of test equipment thoroughly before connecting equipment to the receiver.

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SECTION 1 SPECIFICATIONS

IC-R20

■ GENERAL

Frequency coverage

Version	Receive coverage (MHz)
[EUR], [UK], [SEA], [CAN] [EXP-01], [EXP-02]	0.150–3304.999
[USA]	0.150-821.999, 851.000-866.999, 896.000-1304.999, 1305.000-3304.999
[FRA]	0.150–29.999, 50.200–51.200, 87.500–108.000, 144.000–146.000 430.000–440.000, 1240.000–1300.000

• Mode : FM, WFM, AM, SSB, CW

• No. of memory channel : 1250 channel

(incl. scan edge and auto memory write ch.)

• Frequency stability : ±6 ppm max.

• Tuning steps : 0.01, 0.1, 1, 5, 6.25, 8.33*,

9*, 10, 12.5, 15, 20, 25, 30, 50 and 100 kHz

*selectable depending on the operating frequency

band.

• Antenna Impedance : 50 Ω

ullet Power supply requirement $: 3 \times AA(R6)$ alkaline cells,

BP-206 or external power supply (BC-149/A/D, CP-18)

3dppiy (BO 143/14B

• Polarity : Negative ground

• Current drain (at 3.7 V, backlight is OFF) :

Rated audio 150 mA typical Standby 100 mA typical Power saved 35 mA typical (Power save ratio is 1 : 4)

• Usable temperature range : −10°C to +60°C

 $(-14^{\circ}F \text{ to } +140^{\circ}F)$

• Dimensions : 60(W) \times 142(H) \times 34.8(D) mm; (projections not included) : 23% (W) \times 519/32 (H) \times 13%(D) in

Weight (with antenna and BP-206) : Approx. 320 (g); 11¹⁹/₃₂ (oz)
 External SP connector : 3-conductor 3.5(d) mm

 $(1/8") / 8\Omega$

Audio output power (at 3.7 V): 100 mW typical at 10 %

distortion with an 8 Ω load

BP-206 charging time : Approx. 8 hoursCharging current : 400 mA typical

■ RECEIVER

• Receiver system : Triple super heterodyne and down convertor

• Intermediate frequency : 1st 266.7 and 429.1 MHz

2nd 19.65 MHz 3rd 450 kHz

• Sensitivity* :

Single mode receiving; Except spurious point (Unit; μ V)

Frequency (MHz)	FM	WFM	ΑМ	SSB/CW
0.495 - 1.619	_		2.2	0.4
1.620 - 4.999	0.56		2.2	0.4
5.000 - 29.999			1.4	0.25
30.000 - 49.999		_		_
50.000 - 53.999				0.25
54.000 - 75.999			_	
76.000 – 108.000	0.4	1.8		_
108.001 - 117.999	0.4			
118.000 – 135.999			1.4	0.25
136.000 - 146.999		_		0.25
147.000 – 174.999				
175.000 – 221.999		1.8		_
330.000 - 469.999		_		0.32
470.000 - 769.999	0.56	2.5	_	
770.000 - 832.999]			
833.00 - 1304.999	0.71			_
1330.000 - 2304.999	5.6	-		
2330.000 – 2999.999	18			

*FM and WFM is measured at 12 dB SINAD. AM, SSB and CW are measured at 10 dB S/N.

• Squelch Sensitivity : (except spurious points)

Frequency (MHz)	FM	WFM	AM
0.495 - 1.619	_		0.0
1.620 - 4.999	0.56 μV		2.2 μV
5.000 - 29.999		_	1.4 µV
30.000 - 75.999			
76.000 – 108.000		18 µV	_
108.001 – 117.999	0.4 µV		
118.000 – 135.999			1.4 µV
136.000 – 174.999			
175.000 – 221.999		18 µV	
330.000 - 469.999		_	
470.000 – 769.999	0.56 μV	18 µV	
770.000 – 832.999			_
833.000 - 1304.999	0.71 µV		
1330.000 - 2304.999	5.6 µV	_	
2333.000 – 2999.999	18 µV		

Selectivity

SSB/CW More than 1.8 kHz / -6 dB AM / FM More than 12 kHz / -6 dB

Less than 30 kHz / -60 dB

WFM More than 150 kHz / –6 dB

All stated specifications are subject to change without notice or obligation.

• BC-156

• Input voltage : 8.0-16.0 V

• Charging current : 0.96-1.44 A (Rapid charging) • Usable temperature : 0°C to +35°C (+32°F to +95°F) : 192–288 minutes (Rapid charging) 12–18 minutes (Reserve charging) • Timer device

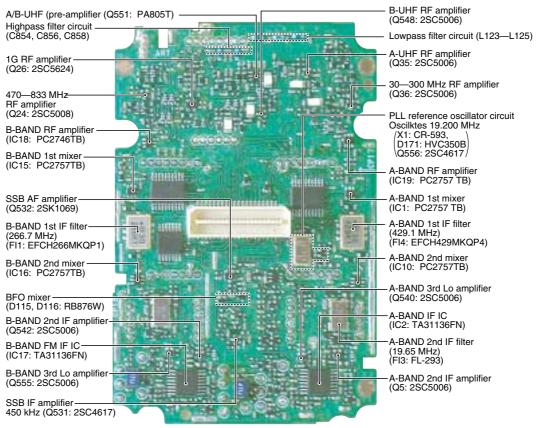
• Protect function

FUNCTION	BP-206 CONDITION	BC-156 ACTION	LED CONDITION
Over discharge	Becomes 1.5 V	Charging stop	Blinking orange
Over charge	Becomes 4.5 V	Charging stop	Blinking orange
Overcurrent	Shorten BP-206 and GND	Charging stop	Blinking orange
Full charge	Becomes 4.2 V	Charging stop	Lighting green
Normal charging	Becomes 3.5 V	Charging	Lighting orange

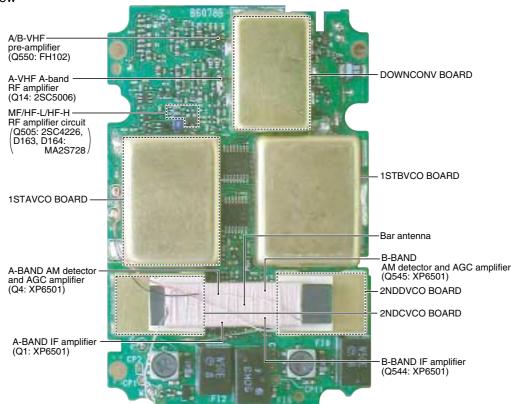
SECTION 2 INSIDE VIEWS

2-1 RF UNIT

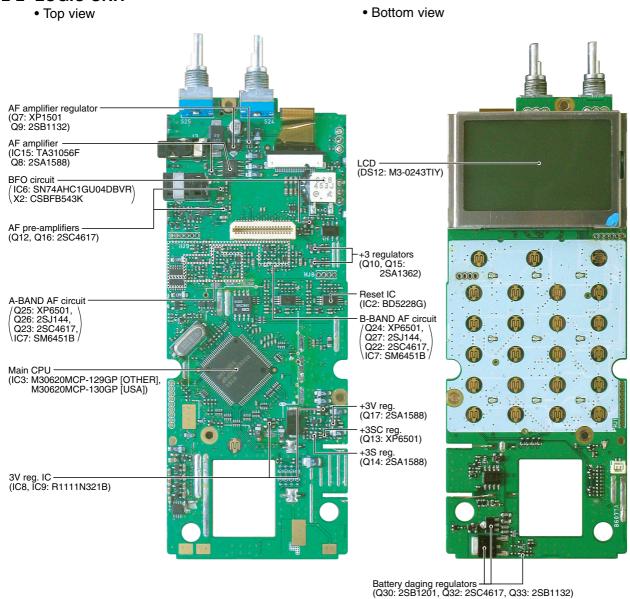
Top view



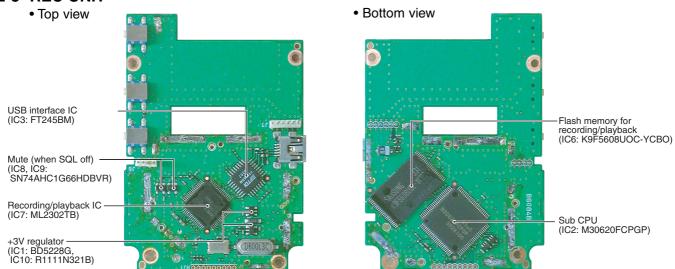
Bottom view



2-2 LOGIC UNIT



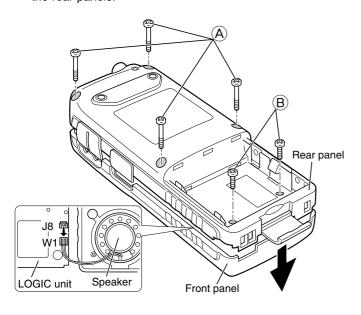
2-3 REC UNIT



SECTION 3 DISASSEMBLY INSTRUCTIONS

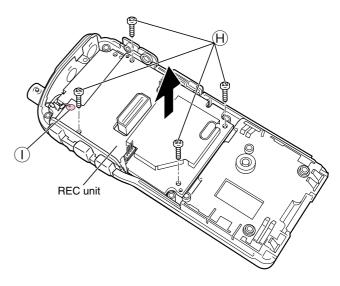
(1) REMOVING THE REAR PANEL

- ① Unscrew 4 screws, A (2 × 115 mm, black).
- 2 Unscrew 2 screws, B (2 × 8 mm, black).
- ③ Unplug W1 and J8 (LOGIC unit) to separate the front and the rear panels.



(3) REMOVING THE REC UNIT

- ① Unscrew 4 flat-head screws, Θ (2 × 4 mm, silver).
- 2 Unsolder 1 point, ().
- 3 Remove the REC unit in the direction of the arrow.

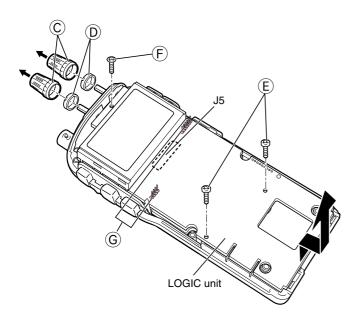


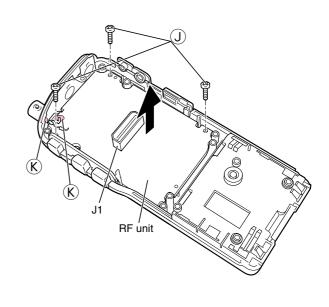
(2) REMOVING THE LOGIC UNIT

- ① Remove 2 knobs, ©, and unscrew 2 nuts, D.
- ② Unscrew 2 flat-head screws, E (2 × 4 mm, silver), and 1 pan-head screw, F (2 × 4 mm, black).
- ③ Unsolder 10 points, ⑤.
- 4 Unplug J5 (bottom side of LOGIC unit) and J1 (RF unit) to separate the LOGIC unit.
- 5 Remove the LOGIC unit in the direction of the arrow.

(4) REMOVING THE RF UNIT

- ① Unscrew 3 flat-head screws, \bigcirc (2 × 4 mm, silver).
- 2 Unsolder 2 points, K.
- 3 Remove the RF unit in the direction of the arrow.





SECTION 4 CIRCUIT DESCRIPTION

4-1 RECEIVER CIRCUITS

4-1-1 BAND SWITCHING CIRCUIT (RF UNIT)

The RF signals from the antenna connector pass through the limiter (D68) and an attenuator* (D69). The signals are then applied to the antenna switching circuit (D3, D11, D13, D65, D66 and D73–D75).

*Above 2 GHz RF signals do not pass through the attenuator.

4-1-2 RF CIRCUIT (RF UNIT)

The RF circuit amplifies the received signals within the range of frequency coverage and filters out-of-band signals.

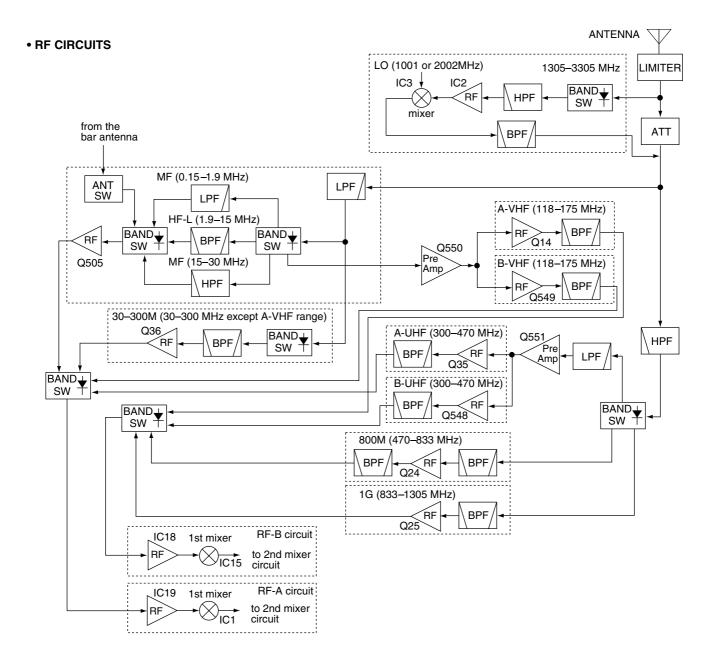
• A-BAND CIRCUIT

(1) MF (above 0.15 MHz, below 1.9 MHz) signals

RF signals (0.15–1.9 MHz) from an attenuator (D69) pass through the low-pass filter (L123–L125 and C851–C853), band switch (D66) and another low-pass filter (L88, L89, C533–C535, C657, C658). The filtered signals pass through another band switch (D67), and are then amplified at an RF amplifier (Q505). The amplified signals are applied to the next band switch (D72).

(2) HF-L (above 1.9 MHz, below 15 MHz) signals

RF signals (1.9–15 MHz) from an attenuator (D69) pass through the low-pass filter (L123–L125 and C851–C853), band switch (D65) and bandpass filter (L85–L87, L91, C522–C531 and C891). The filtered signals pass through another band switch (D70), and are then amplified at an RF amplifier (Q505). The amplified signals are applied to the next band switch (D72).



(3) HF-H (above 15 MHz, below 30 MHz) signals

RF signals (15–30 MHz) from an attenuator (D69) pass through the low-pass filter (L123–L125 and C851–C853), band switch (D73) and bandpass filter (L81–L84 and C511–C520). The filtered signals pass through another band switch (D64), and are then amplified at an RF amplifier (Q505). The amplified signals are applied to the next band switch (D72).

(4) A-VHF (above 118 MHz, below 175 MHz) signals

RF signals (118–175 MHz) from an attenuator (D69) pass through the low-pass filter (L123–L125 and C851–C853), band switch (D74), and are then applied to the pre-amplifier (Q550) which is controlled by "A_VHF3V" signal via the D148. The signals are amplified at the RF amplifier (Q14), and pass through the bandpass filter (D1, D2, L1 and C14–C16). The filtered signals are applied to the next band switch (D25).

(5) 30-300M (above 30 MHz, below 300 MHz and except A-VHF signals) signals

RF signals (118–175 MHz) from an attenuator (D69) pass through the low-pass filter (L123–L125 and C851–C853) and band switch (D75). The filtered signals pass through the bandpass filter (L9, L10, L92, L133, C40–C43, C665 and C666), and are then amplified at an RF amplifier (Q36). The amplified signals are applied to the next band switch (D34).

(6) A-UHF (above 300 MHz, below 470 MHz) signals

RF signals (300–470 MHz) from an attenuator (D69) pass through the high-pass filter (L126, L127 and C854–C858) and band switch (D3). The filtered signals pass through the low-pass filter (L3, L4, C22, C23 and C218), and are then amplified at the pre-amplifier (Q551) which is controlled by "A_UHF3V" signal via the D150. The amplified signals are applied to the RF amplifier (Q35), and then pass through the bandpass filter (D4, D5, L60, C58 and C59). The signals are applied to the next band switch (D29).

• B-BAND CIRCUIT

(1) B-VHF (above 118 MHz, below 175 MHz) signals

RF signals (118–175 MHz) from an attenuator (D69) pass through the low-pass filter (L123–L125 and C851–C853), band switch (D74), and are then applied to the pre-amplifier (Q550) which is controlled by "B_VHF3V" signal via the D149. The signals are amplified at the RF amplifier (Q549), and pass through the bandpass filter (D145, D146, L120, C833 and C834). The filtered signals are applied to the next band switch (D147).

(2) B-UHF (above 330 MHz, below 470 MHz) signals

RF signals (330–470 MHz) from an attenuator (D69) pass through the high-pass filter (L126, L127 and C854–C858) and band switch (D3). The filtered signals pass through the low-pass filter (L3, L4, C22 and C23), and are then amplified at the pre-amplifier (Q551) which is controlled by "A_VHF3V" signal via the D151. The amplified signals are applied to the RF amplifier (Q548), and then pass through the bandpass filter (D141, D142, L113, C814 and C816). The signals are applied to the next band switch (D143).

(3) 800M (above 470 MHz, below 833 MHz) signals

RF signals (470–833 MHz) from an attenuator (D69) pass through the high-pass filter (L126, L127 and C854–C858) and band switch (D11). The filtered signals pass through the bandpass filter (D173, D174, L129 and L130), and are then amplified at the RF amplifier (Q24). The amplified signals pass through the bandpass filter (D175, D176 and L132). The signals are applied to the next band switch (D32).

(4) 1G (above 833 MHz, below 1305 MHz) signals

RF signals (833–1305 MHz) from an attenuator (D69) pass through the high-pass filter (L126, L127 and C854–C858) and band switch (D13). The filtered signals pass through the bandpass filter (L11–L13, L43, C5, C45–C51), and are then amplified at the RF amplifier (Q26). The signals are applied to the next band switch (D36).

4-1-3 DOWN CONVERTER CIRCUIT (RF UNIT AND DOWNCONV BOARD)

The down converter circuit converts the signals within 1305–3305 MHz into 0.15 MHz to 1305 MHz signals.

The converted frequencies can calculate as follow.

F(x)=X-1001 (X is above 1305 MHz, below 2306 MHz)

F(x)=X-2002 (X is above 2306 MHz, below 3305 MHz)

NOTE: F(x) is converted frequency X is receiving frequency

(Calculate example)

- Convert into 599 MHz when receiving 1600 MHz.
- Convert into 798 MHz when receiving 2800 MHz.

The RF signals from the limiter (D68) are applied to the DOWNCONV board via the J1, pin 8 on the DOWNCONV board. The signals pass through the band switch (DOWNCONV board; D1) and high-pass filter (DOWNCONV board; L1, L2, C2–C4, C41 and C42), and are then amplified at the RF amplifier (DOWNCONV board; IC2, pin 1). The signals are mixed with 1001 MHz or 2002 MHz LO signal at the mixer (DOWNCONV board; IC3, pin 1). The converted signals output from pin 6, and pass through the band switch (DOWNCONV board; D2).

The converted signals are applied to the RF unit via J1, pin 1 on the board. According to converted frequency, the signals are applied to the each matched RF circuit.

4-1-4 1ST MIXER AND 1ST IF CIRCUITS (RF UNIT)

The 1st mixer circuit converts the received RF signals to a fixed frequency of the 1st IF signal with a PLL output frequency. By changing the PLL frequency, only the desired frequency will pass through the bandpass filters at the next stage of the 1st mixer.

• A-BAND CIRCUIT

The RF signals from the band switch (D25, D29, D34 and D72) are amplified at the RF amplifier (IC19, pins 1, 4), and are mixed with 1st LO signals at the 1st mixer circuit (IC1, pin 1) to produce a 429.1 MHz 1st IF signal. The 1st IF signal is output from pin 6, and passed through the bandpass filter (FI4) to suppress unwanted harmonic components. The filtered 1st IF signal is applied to the 2nd mixer circuit.

The 1st LO signals are generated at the 1st A_VCO circuit and are applied to the 1st mixer (IC1, pin 3) directly.

• B-BAND CIRCUIT

The RF signals from the band switch (D32, D36, D143 and D147) are amplified at the RF amplifier (IC18, pins 1, 4), and are mixed with 1st LO signals at the 1st mixer circuit (IC15, pin 1) to produce a 266.7 MHz 1st IF signal. The 1st IF signal is output from pin 6, and passed through the bandpass filter (FI1) to suppress unwanted harmonic components. The filtered 1st IF signal is applied to the 2nd mixer circuit.

The 1st LO signals are generated at the 1st B_VCO circuit and are applied to the 1st mixer (IC15, pin 3) directly.

4-1-5 2ND MIXER AND 2ND IF CIRCUITS (RF UNIT)

The 2nd mixer circuit converts the 1st IF signal to a 2nd IF signal.

A-BAND CIRCUIT

The filtered 429.1 MHz 1st IF signal from the bandpass filter (FI4) is mixed with the 2nd LO signal at the 2nd mixer circuit (IC10, pin 1, 6) to produce a 19.65 MHz 2nd IF signal.

In case of AM/CW/SSB/Narrow FM mode, the 2nd IF signal passes through the mode switch (D58), crystal bandpass filter (FI3) and another mode switch (D60).

In case of WFM mode, the 2nd IF signal passes through the mode switch (D59), low-pass filter (C202, C745, R207 and R536) and another mode switch (D61).

The filtered 2nd IF signal is amplified at the 2nd IF amplifier (Q5), and is then applied to the demodulator circuit.

• B-BAND CIRCUIT

The filtered 266.7 MHz 1st IF signal from the bandpass filter (FI1) is mixed with the 2nd LO signal at the 2nd mixer circuit (IC16, pin 1, 6) to produce a 19.65 MHz 2nd IF signal.

In case of AM/CW/SSB/Narrow FM mode, the 2nd IF signal passes through the mode switch (D130), crystal bandpass filter (FI7) and another mode switch (D132).

In case of WFM mode, the 2nd IF signal passes through the mode switch (D131), low-pass filter (C755, C756, R428, R429 and R537) and another mode switch (D133).

The filtered 2nd IF signal is amplified at the 2nd IF amplifier (Q542), and is then applied to the demodulator circuit.

4-1-6 3RD MIXER AND DEMODULATOR CIRCUITS (RF UNIT)

The 3rd mixer circuit converts the 2nd IF signal to a 3rd IF signal. The demodulator circuit converts the 3rd IF signal into AF signals.

• A-BAND CIRCUIT

The 19.65 MHz 2nd IF signal from the 2nd IF amplifier (Q5) is applied to the 3rd mixer section of the FM IF IC (IC2, pin 16) and is then mixed with the 3rd LO signal for conversion into a 450 kHz 3rd IF signal.

IC2 contains the 3rd mixer, limiter amplifier, quadrature detector and S-meter detector, etc. A frequency from the PLL reference oscillator is used for the 3rd LO signal (19.20 MHz).

(1) FM MODE

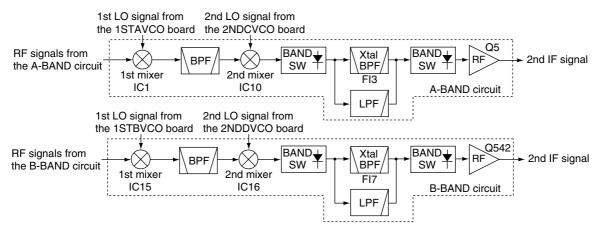
The 3rd IF signal is output from the FM IF IC (IC2, pin 3), and passes through the mode switch (D109) and ceramic bandpass filter (Fl2). The filtered signal passes through the mode switch (D112), and is then fed back and amplified at the limiter amplifier section (pin 5). The signal is demodulated to AF signals at the quadrature detector section (pins 10, 11) and detector coil (L21). The demodulated AF signals are output from pin 9 and are applied to the AF switch (IC12, pin 11) via the "A_DETFM" line, and are then applied to the AF circuit (LOGIC unit) as "A_DET" signal.

(2) WFM MODE

The 3rd IF signal is output from the FM IF IC (IC2, pin 3), and passes through the mode switch (D108) and low-pass filter (L99, C686 and C687). The filtered signal passes through the mode switch (D111), and is then fed back to the limiter amplifier section (pin 5). The amplified signal is demodulated at the quadrature detector section (pins 10 and 11) and detector coil (L21). The AF signals are output from pin 9 and are applied to the AF switch (IC12, pin 11) via the "A_DETFM" line, and are then applied to the AF circuit (LOGIC unit) as "A_DET" signal.

By connecting R55 to R54 in parallel, the output characteristics of pin 12, "RSSI", change gradually. Therefore, the FM IF IC can detect WFM components.

• 1ST, 2ND MIXER AND 2ND IF CIRCUITS



(3) AM MODE

The 3rd IF signal is output from the FM IF IC (IC2, pin 3), and passes through the mode switch (D109) and ceramic bandpass filter (FI2). The filtered signal passes through the mode switch (D112), and is then applied to the IF amplifier (Q531). The amplified signal is demodulated at the AM detector (Q4). The AF signals pass through the ANL circuit (D114), and are then applied to the AF switch (IC12, pin 4) via the "A_DETAM" line, and are then applied to the AF circuit (LOGIC unit) as "A_DET" signal.

(4) SSB/CW MODES

The 3rd IF signal is output from the FM IF IC (IC2, pin 3), and passes through the mode switch (D110) and ceramic bandpass filter (FI6). The filtered signal passes through the mode switch (D113), and is then applied to the IF amplifier (Q531). The amplified signal is mixed with BFO signal from the LOGIC unit at the mixer (D115 and D116) to demodulate to AF signals. The AF signals are applied to the SSB AF amplifier (Q532), and are then applied to the AF switch (IC12, pin 1) via the "A_DETSSB" line, and are then applied to the AF circuit (LOGIC unit) as "A_DET" signal.

• B-BAND CIRCUIT

The 19.65 MHz 2nd IF signal from the 2nd IF amplifier (Q542) is applied to the 3rd mixer section of the FM IF IC (IC17, pin 16) and is then mixed with the 3rd LO signal for conversion into a 450 kHz 3rd IF signal.

IC17 contains the 3rd mixer, limiter amplifier, quadrature detector and S-meter detector, etc. A frequency from the PLL reference oscillator is used for the 3rd LO signal (19.20 MHz).

(1) FM MODE

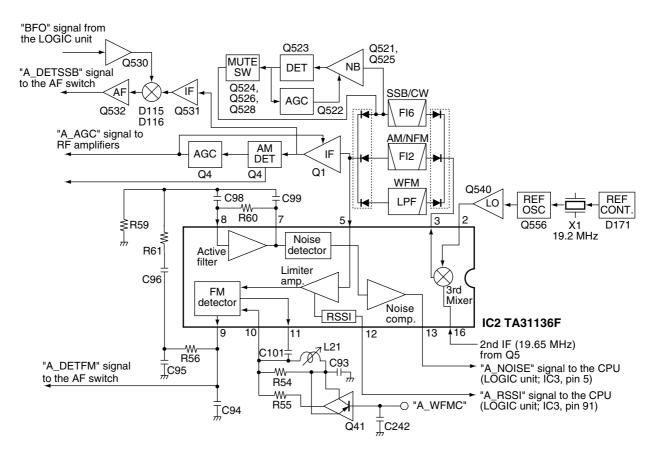
The 3rd IF signal is output from the FM IF IC (IC17, pin 3), and passes through the mode switch (D134) and ceramic bandpass filter (FI8). The filtered signal passes through the mode switch (D136), and is then fed back and amplified at the limiter amplifier section (pin 5). The signal is demodulated AF signals at the quadrature detector section (pins 10, 11) and detector coil (L105). The demodulated AF signals are output from pin 9 and are applied to the AF switch (IC21, pin 1) via the "DET_OUT" line, and are then applied to the AF circuit (LOGIC unit) as "B_DET" signal.

(2) WFM MODE

The 3rd IF signal is output from the FM IF IC (IC17, pin 3), and passes through the mode switch (D135) and low-pass filter (L106, C781 and C782). The filtered signal passes through the mode switch (D137), and is then fed back to the limiter amplifier section (pin 5). The amplified signal is demodulated at the quadrature detector section (pins 10 and 11) and detector coil (L105). The AF signals are output from pin 9 and are applied to the AF switch (IC21, pin 1) via the "DET_OUT" line, and are then applied to the AF circuit (LOGIC unit) as "B_DET" signal.

By connecting R436 to R437 in parallel, the output characteristics of pin 12, "RSSI", change gradually. Therefore, the FM IF IC can detect WFM components.

• A-BAND 3RD MIXER AND DEMODULATOR CIRCUITS



(3) AM MODE

The 3rd IF signal is output from the FM IF IC (IC17, pin 3), and passes through the mode switch (D134) and ceramic bandpass filter (F18). The filtered signal passes through the mode switch (D136), and is then applied to the IF amplifier (Q544). The amplified signal is demodulated at the AM detector (Q545). The AF signals pass through the ANL circuit (D139), and are then applied to the AF switch (IC21, pin 4) via the "AM_DET" line, and are then applied to the AF circuit (LOGIC unit) as "B_DET" signal.

4-1-7 AF AMPLIFIER CIRCUIT (LOGIC UNIT)

The AF amplifier circuit amplifies the demodulated AF signals to drive a speaker.

A-BAND CIRCUIT

While in FM mode, AF signals from the demodulator circuit (RF unit) pass through the AF filter (Q25), and are then amplified at the AF amplifier (Q23).

While in WFM/AM/SSB/CW modes, AF signals from the demodulator circuit (RF unit) bypass the AF filter via the AF filter bypass switch (Q26), and are then amplified at the AF amplifier (Q23).

The signals are applied to the electronics volume (IC7, pin 6) to control volume level. The signals output from pin 5, and are applied to the pre-amplifier (Q12). The signals are amplified at the AF amplifier (IC5, pin 1), and then output from pin 6. The signals are applied to the internal speaker which is connected with J8 via the external speaker jack (J3).

• B-BAND CIRCUIT

While in FM mode, AF signals from the demodulator circuit (RF unit) pass through the AF filter (Q24), and are then amplified at the AF amplifier (Q22).

While in WFM/AM modes, AF signals from the demodulator circuit (RF unit) bypass the AF filter via the AF filter bypass switch (Q27), and are then amplified at the AF amplifier (Q22).

The signals are applied to the electronics volume (IC7, pin 11) to control volume level after passing through the mute switch (Q19). The signals output from pin 12, and are applied to the pre-amplifier (Q16). The signals are amplified at the AF amplifier (IC5, pin 1), and then output from pin 6. The signals are applied to the internal speaker which is connected with J8 via the external speaker jack (J3).

The electronic volume control circuit controls AF gain, therefore, the AF output level is according to the [VOL] setting and also the squelch conditions.

4-1-8 SQUELCH CIRCUIT (LOGIC AND RF UNITS) • NOISE SQUELCH

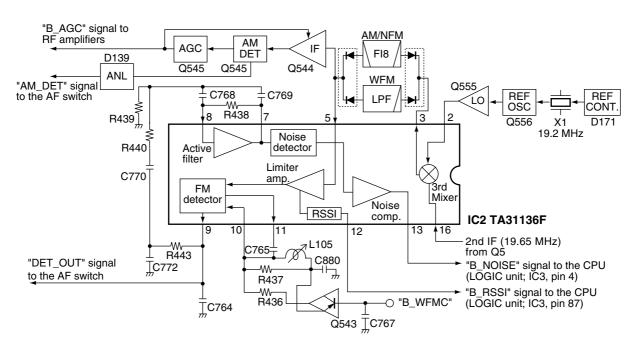
The noise squelch circuit cuts out AF signals when no RF signals are received. By detecting noise components in the AF signals, the squelch circuit switches the AF mute switch.

A portion of the "A_NOISE" signals from the FM IF IC (RF unit; IC2, pin 13) are applied to the CPU (LOGIC unit; IC3, pin 5). The CPU analyzes the noise condition and outputs the "AFON" signal (from pin 17) to the AF amplifier's controller (LOGIC unit; Q7).

• TONE SQUELCH

The tone squelch circuit detects AF signals and opens the squelch only when receiving a signal containing a matching subaudible tone (CTCSS). When tone squelch is in use, and a signal with a mismatched or no subaudible tone is received, the tone squelch circuit mutes the AF signals even when noise squelch is open.

• B-BAND 3RD MIXER AND DEMODULATOR CIRCUITS



(1) A-BAND CIRCUIT

A portion of the AF signals from the FM IF IC (RF unit; IC2, pin 9) passes through the low-pass filter (LOGIC unit; C161, C164, R169 and R175) via the "A_DET" line to remove AF (voice) signals and is applied to the CTCSS decoder inside the CPU (LOGIC unit; IC3, pin 89) via the "A_CTONE" line to control the AF mute switch.

(2) B-BAND CIRCUIT

A portion of the AF signals from the FM IF IC (RF unit; IC17, pin 9) passes through the low-pass filter (LOGIC unit; C160, C163, R168 and R174) via the "B_DET" line to remove AF (voice) signals and is applied to the CTCSS decoder inside the CPU (LOGIC unit; IC3, pin 90) via the "B_CTONE" line to control the AF mute switch.

4-1-9 AGC CIRCUIT (RF UNIT)

The AGC (Automatic Gain Control) circuit reduces IF and RF amplifiers gain to keep the audio output at a constant level. The receiver gain is determined by the voltage on the AGC line (A-BAND circuit is Q4's collector, B-BAND circuit is Q545's collector).

• A-BAND CIRCUIT

A part of the 3rd IF signal from the mode switch (D111–D113) is amplified at the IF amplifier (Q1), and is then applied to the AM detector. (Q4, pin 5). The signal is output from pin 1, and is then applied to the AGC circuit of the same one (pin 3). The signal is output from pin 4 as "A-AGC" signal, and is then applied to the 3rd IF amplifier (Q1), 2nd IF amplifier (Q5) and RF amplifiers (Q14, Q35, Q36 and Q505).

• B-BAND CIRCUIT

A part of the 3rd IF signal from the mode switch (D136 and D137) is amplified at the IF amplifier (Q544), and is then applied to the AM detector. (Q545, pin 5). The signal is output from pin 1, and is then applied to the AGC circuit of the same one (pin 3). The signal is output from pin 4 as "B-AGC" signal, and is then applied to the 3rd IF amplifier (Q544), 2nd IF amplifier (Q542) and RF amplifiers (Q24, Q25, Q548 and Q549).

The A-AGC or B-AGC voltage is used for the the bias voltage of the IF and RF amplifiers. When receiving strong signals, the detected voltage increases and the AGC voltage decreases. Therefore, the receiver obtain stable receiver gain.

4-1-10 IC RECORDER CIRCUIT (LOGIC UNIT)

The IC RECORDER circuit is composed of RECORDER IC (IC7), sub CPU (IC2), flash memory (IC6), USB interface (IC3), etc.

(1) IN CASE OF RECORDING • A-BAND CIRCUIT

The AF signals from the AF amplifier (Q23) are applied to the REC board via the HJ8, pin 2 as "A_AIN" signal. The signals are applied to the RECORDING IC (IC7, pin 25) to compress the voice signals, and are then converted to digital signals. The signals are applied to the sub CPU (IC2), and are then stored in the flash memory (IC6).

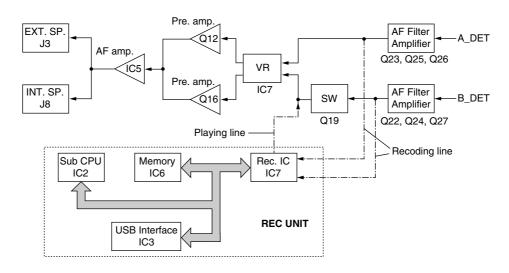
• B-BAND CIRCUIT

The AF signals from the AF amplifier (Q22) are applied to the REC board via the HJ8, pin 3 as "B_AIN" signal. The signals pass through the AF mute switch (IC8, pins 1 and 2), and are then applied to the RECORDING IC (IC7, pin 20) to compress the voice signals, and are then converted to digital signals. The signals are applied to the sub CPU (IC2), and are then stored in the flash memory (IC6).

(2) IN CASE OF PLAYBACK

The stored RECORDING data in the flash memory (IC6) are applied to the sub CPU (IC2), and are then applied to the RECORDING IC (IC7). The signals are converted to analog signals, and are then expanded into the AF voice signals. The AF signals output from RECORDING IC (IC7, pin 25). The signals are applied to the LOGIC unit via the J6, pin 3 as "AOUT" signal, and are then applied to the electronics volume (IC7, pin 11) to control volume level. The signals output from pin 12, and are applied to the pre-amplifier (Q16). The signals are amplified at the AF amplifier (IC5, pin 1), and then output from pin 6. The signals are applied to the internal speaker which is connected with J8 via the external speaker jack (J3).

• AF AMPLIFIER AND IC RECORDER CIRCUITS



4-2 PLL CIRCUITS

4-2-1 PLL CIRCUIT

A PLL circuit provides stable oscillation of the 1st LO frequencies. The PLL circuit compares the phase of the divided VCO frequency to the reference frequency. The PLL output frequency is controlled by the divided ratio (N-data) of a programmable divider.

• A-BAND CIRCUIT (1STAVCO BOARD)

An oscillated signal from one of the 1st VCO circuits (Q1–Q3, D1–D4) passes through the LO switch (D7–D19) and buffer amplifiers (IC2, Q8). The amplified signal is applied to the PLL IC (IC3, pin 11) and is prescaled in the PLL IC based on the divided ratio (N-data). The PLL IC detects the out-of-step phase using the reference frequency and outputs it from pin 5. The output signal is passed through the loop filter (Q6, Q7), and is then applied to the one of the 1st VCO circuits as the lock voltage.

• B-BAND CIRCUIT (1STBVCO BOARD)

An oscillated signal from one of the 1st VCO circuits (Q1–Q5, D1–D5) passes through the LO switch (D7–D10) and buffer amplifiers (IC2, Q8). The amplified signal is applied to the PLL IC (IC3, pin 11) and is prescaled in the PLL IC based on the divided ratio (N-data). The PLL IC detects the out-of-step phase using the reference frequency and outputs it from pin 5. The output signal is passed through the loop filter (Q6, Q7), and is then applied to the one of the 1st VCO circuits as the lock voltage.

DOWN CONVERTER PLL CIRCUIT (DOWNCONV BOARD)

An oscillated signal from the VCO circuit (Q1, D3) is amplified at the buffer amplifier (Q2). The amplified signal is applied to the PLL IC (IC4, pin 8) and is prescaled in the PLL IC based on the divided ratio (N-data). The PLL IC detects the out-of-step phase using the reference frequency and outputs it from pin 5. The output signal is passed through the low-pass filter (L6, C21, C22 and C40), and is then applied to the one of the 1st VCO circuits as the lock voltage.

4-2-2 REFERENCE OSCILLATOR CIRCUIT (RF UNIT)

The reference oscillator circuit (X1, Q556, D171) generates a 19.2 MHz reference frequency which is stabilized within the temperature range -10°C (+14°F) to +60°C (+140°F). The reference frequency is applied to the PLL ICs (refer to the list below in details) and the FM IF ICs (IC2, pin 2 for A-BAND circuit: IC17, pin 2 for B-BAND circuit) via the LO amplifiers (Q540 for A-BAND circuit; Q555 for B-BAND circuit).

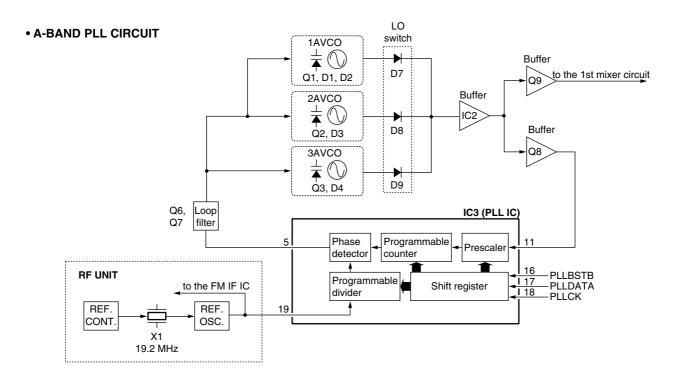
PLL IC	INPUT	OUTPUT
IC3	pin 19	pin 5
IC3	pin 19	pin 5
IC1	pin 1	pin 6
IC1	pin 1	pin 6
IC4	pin 1	pin 5
	IC3 IC3 IC1 IC1	IC3 pin 19 IC3 pin 19 IC1 pin 1 IC1 pin 1

4-2-3 1ST VCO CIRCUITS (1STAVCO AND 1STBVCO BOARDS) • A-BAND CIRCUIT (1STAVCO BOARD)

The oscillated signal at 1st A-VCO circuits is applied to the buffer amplifiers (IC2) via one of the LO switches (D7–D9). The amplified signal is applied to the 1st mixer circuit (RF unit; IC1, pin 3) via the LO amplifier (Q9).

The 1st A-VCO circuit is composed of 1AVCO, 2AVCO and 3AVCO. Components and osillating frequences of each circuits are as follow list.

1st A-VCO	Components	Oscillating freq. (MHz)
1AVCO	Q1, D1 and D2	849.1–899.0999
2AVCO	Q2 and D3	604.1-849.0999
3AVCO	Q3 and D4	429.25–604.0999



A portion of the signal from the buffer amplifier (IC2) is amplified at the buffer amplifier (Q8) and is then fed back to the PLL IC (IC3, pin 11) as the comparison signal.

• B-BAND CIRCUIT (1STBVCO BOARD)

The oscillated signal at 1st B-VCO circuits is applied to the buffer amplifiers (IC2) via one of the LO switches (D7–D10). The amplified signal is applied to the 1st mixer circuit (RF unit; IC15, pin 3) via the LO amplifier (Q9). Components and osillating frequences of each circuits are as follow list.

1st B-VCO	Components	Oscillating freq. (MHz)
1BVCO	Q1, D1 and D2	863.3–1099.6999
2BVCO	Q2 and D3	683.3–866.6999
3BVCO	Q3 and D4	566.3–686.6999
4BVCO	Q4, Q5 and D5	384.7–441.6999

A portion of the signal from the buffer amplifier (IC2) is amplified at the buffer amplifier (Q8) and is then fed back to the PLL IC (IC3, pin 11) as the comparison signal.

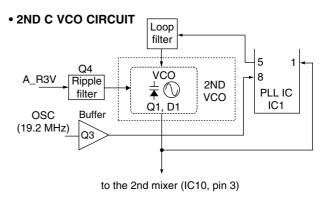
4-2-4 2ND VCO CIRCUITS (2NDCVCO AND 2NDDVCO BOARDS)

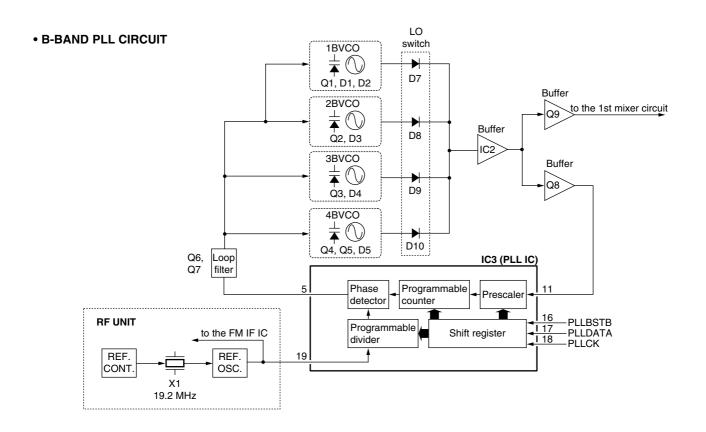
The 2nd VCO circuit generates the 2nd LO frequencies, and the signals are applied to the 2nd mixer circuit.

• A-BAND CIRCUIT (2NDCVCO BOARD)

The 2nd C-VCO circuit (Q1 and D1) generates 409.4500 MHz and 448.7500 MHz. The oscillated signal is applied to the 2nd mixer (RF unit; IC10, pin 3), and is then mixed with the 1st IF signal.

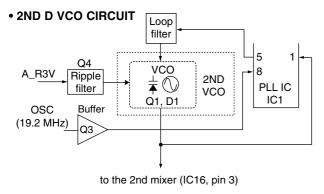
A part of oscillated signal from the 2nd C-VCO circuit is applied to the PLL IC (IC1, pin 8) as the comparison signal, and is then output from pin 5. The signal passes through the loop filter (R14, R15 and R22), and is then applied to the 2nd C-VCO circuit again as PLL lock voltage.





• B-BAND CIRCUIT (2NDDVCO BOARD)

The 2nd D-VCO circuit (Q1 and D1) generates 247.0500 MHz and 286.3500 MHz. The oscillated signal is applied to the 2nd mixer (RF unit; IC16, pin 3), and is then mixed with the 1st IF signal.



A part of oscillated signal from the 2nd C-VCO circuit is applied to the PLL IC (IC1, pin 8) as the comparison signal, and is then output from pin 5. The signal passes through the loop filter (R14, R15 and R22), and is then applied to the 2nd D-VCO circuit again as PLL lock voltage.

4-2-5 3RD LO CIRCUIT (RF UNIT)

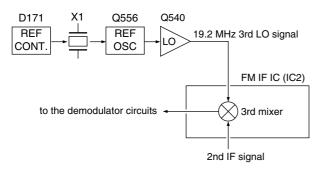
The 3rd LO circuit uses 19.2 MHz reference signal which is generates at the X1 and Q556.

• A-BAND CIRCUIT

The 19.2 MHz reference signal is amplified at the LO amplifier (Q540), and is then applied to the FM IF IC (IC2, pin 2) as the 3rd LO signal.

The signal is mixed with 2nd IF signal to convert into 3rd IF signal. The 3rd IF signal is applied to one of demodulator (FM/WFM/AM/SSB) circuits.

• 3RD LO CIRCUIT (A-BAND)

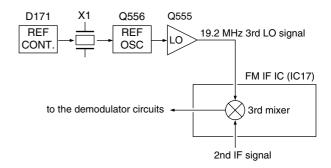


• B-BAND CIRCUIT

The 19.2 MHz reference signal is amplified at the LO amplifier (Q555), and is then applied to the FM IF IC (IC17, pin 2) as the 3rd LO signal.

The signal is mixed with 2nd IF signal to convert into 3rd IF signal. The 3rd IF signal is applied to the each demodulator (FM/WFM/AM) circuits.

• 3RD LO CIRCUIT (B-BAND)



4-2-6 DOWN CONVERTER VCO CIRCUIT (DOWNCONV BOARD)

The DOWN CONVERTER circuit uses 19.2 MHz reference signal which is generates at the X1 and Q556 on the RF unit.

The DOWN CONVERTER VCO circuit (Q1 and D3) generates 1001 MHz or 2002 MHz. The oscillated signal is amplified at the buffer amplifier (Q4), and passes through band switch.

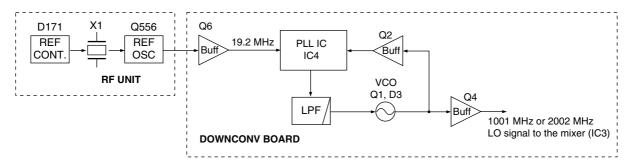
When receiving 1305–2305.999 MHz RF signals, 1001 MHz LO signal is selected. The RF signals pass through band switch (D6), and then pass through another band switch (D8).

When receiving 2306–3304.999 MHz, 2002 MHz LO signal is selectd. The RF signals pass through the band switch (D5), and then pass through the high-pass filter (L9, L10 and C28–C32). The signals passes through another band switch (D7).

The 1001 MHz or 2002 MHz LO signal is applied to the mixer circuit (IC3, pin 3).

A part of oscillated signal from the DOWN CONVERTER VCO circuit is amplified at the buffer amplifier (Q2), and is then applied to the PLL IC (IC4, pin 8) as the comparison signal, and is then output from pin 5. The signal passes through the loop filter (L6, C21, C22 and C40), and is then applied to the DOWN CONVERTER VCO circuit again as PLL lock voltage.

• DOWN CONVERTER VCO CIRCUIT



4-2-7 BFO CIRCUIT (LOGIC UNIT)

The oscillated signal at the BFO VCO circuit (IC6, X2) is applied to the MAIN unit via the J5 (pin 35) as the BFO, and is then amplified at the BFO amplifier (RF unit; Q530). The amplified signal is mixed with 3rd IF signal to demodulate to AF signal on SSB/CW modes.

The carrier frequency is shifted by "BFO_SHIFT" signal from the main CPU (IC3, pin 2) while receiving SSB modes.

4-3 OTHER CIRCUITS

4-3-1 BATTERY CHARGER CIRCUIT (LOGIC UNIT)

When charging the installed battery (BP-206), the battery charger control signal (CHGC) becomes high, and is then output from the CPU (IC3, pin 39). The signal is applied to the battery charger controller (Q34), and its output controls the battery charger circuit (Q31, D28, D29) to output 400 mA (typical) charging current.

4-3-2 BAR ANTENNA TUNING CIRCUIT (RF UNIT)

When selecting the internal bar antenna while AM band signals are receiving, the interal bar antenna switching signal is output from the D/A converter (IC22, pin 7) as "ANTSW" signal. The signal is applied to the antenna switching circuit (Q510, D76), and then switches to the internal bar antenna.

The expander IC (IC14) outputs the "A-TRAC" bar antenna control signal from pin 8. The signal is applied to the level converter (Q513), and is then applied to the AM bar antenna tune circuit (D100). The circuit tunes to the desire frequency to change the D100's capacity.

4-3-3 EARPHONE ANTENNA CIRCUIT (LOGIC AND RF UNITS)

When selecting the earphone antenna while WFM band receiving, the received RF signal passes through the external speaker jack (LOGIC unit; J3). The signal is applied to the RF unit via the J5, pin 4 as "EAR" signal. The signal is applied to the antenna switch (RF unit; D101), and is then applied to the 30–300 MHz RF circuit.

4-3-4 RESET CIRCUIT (LOGIC UNIT)

When [POWER] switch is ON, CPU3 signal from the +3 regulator (IC8) is applied to the reset IC (IC2, pin 2). The IC outputs reset signal via the "RESET" line, and the signal is applied to the main CPU (IC3, pin 10) to reset it.

4-3-5 LCD BACKLIGHT CIRCUIT (LOGIC UNIT)

When the LCD backlight is ON, the LCD backlight control signal becomes high, and is output from the main CPU (IC3, pin 41) as "LIGHT" signal. The signal is applied to the backlight control switch (Q2, Q4 and Q5), and is then applied to the LCD backlight LEDs (DS1–DS9 and EP12).

4-4 POWER SUPPLY CIRCUITS 4-4-1 LOGIC UNIT VOLTAGE LINES

Line	Description
VCC	The voltage is same as connected battery pack. The voltage is supplied to the charge controller (Q32).
CPU3V	Common 3 V converted from the VCC line or external DC power supply by the +3 regulator (IC8, pins 1 and 5). The output voltage is supplied to the main CPU (IC3), reset IC (IC2), EEP-ROM (IC1), etc.
+3S	Common 3 V converted from the CPU3V line by the +3 regulator (Q13 and Q14). The regulator is controlled by the +3SC line from the main CPU (IC3, pin 40). The output voltage is supplied to the electronics volume (IC7), pre-amplifiers (Q12 and Q16), etc.
+3V	Common 3 V converted from the CPU3V line by the +3 regulator circuit (Q17). The output voltage is supplied to the CI-V interface circuit (IC4, Q3 and Q6), etc.
A_R3	Receive 3 V converted from the VCC line or external DC power supply by the +3 regulators (IC9, pins 1 and 5; Q10). The regulator is controlled by the A_R3C line from the main CPU (IC3, pin 67). The output voltage is supplied to the RF unit, etc.
B_R3	Receive 3 V converted from the VCC line or external DC power supply by the +3 regulators (IC9, pins 1 and 5; Q15). The regulator is controlled by the B_R3C line from the main CPU (IC3, pin 75). The output voltage is supplied to the RF unit, etc.

4-4-2 REC UNIT VOLTAGE LINES

Line	Description		
+3V	Common 3 V from the LOGIC unit via the J7, pin 1, and is then supplied to the SUB_3V regulator (Q2). The regulator is controlled by SUB_3C line from the sub CPU (IC2, pin 45).		
SUB_3V	Common 3 V converted from +3V line by the SUB_3V regulator (Q2). The output voltage is supplied to the sub CPU (IC2), memory (IC6), RECORDING IC (IC7), etc.		

4-4-2 REC UNIT VOLTAGE LINES

Line	Description		
+3V	Common 3 V from the LOGIC unit via the J7, pin 1, and is then supplied to the SUB_3V regulator (Q2). The regulator is controlled by SUB_3C line from the sub CPU (IC2, pin 45).		
SUB_3V	Common 3 V converted from +3V line by the SUB_3V regulator (Q2). The output voltage is supplied to the sub CPU (IC2), memory (IC6), RECORDING IC (IC7), etc.		

4-4-3 RF UNIT VOLTAGE LINES

Line	Description		
A_R3V	Receive 3 V line from the LOGIC unit via the J1, pin 37. The voltage is supplied to the RF (IC19), IF (Q5) and LO (Q540) amplifiers, 1st (IC1) and 2nd (IC10) mixers, regulators, etc.		
B_R3V	Receive 3 V line from the LOGIC unit via the J1, pin 22. The voltage is supplied to the RF (IC18), IF (Q542) and LO (Q555) amplifiers, 1st (IC15) and 2nd (IC16) mixers, regulators, etc.		
HF3V	Receive 3 V converted from the A_R3V line by the +3 regulator (Q509). The regulator is controlled by the HFC line from the main CPU (LOGIC unit; IC3, pin 46).		
NB3V	Common 3 V converted from the A_R3V line by the +3 regulator (Q527). The regulator is controlled by the NBC line from the D/A converter (IC22, pin 13).		
300M3V	Receive 3 V converted from the A_R3V line by the +3 regulator (Q501). The regulator is controlled by the A_300MC line from the expander IC (IC14, pin 3).		
A_VHF3V	Receive 3 V converted from the A_R3V line by the +3 regulator (Q502). The regulator is controlled by the A_VHFC line from the expander IC (IC14, pin 2).		
A_UHF3V	Receive 3 V converted from the A_R3V line by the +3 regulator (Q502). The regulator is controlled by the A_UHFC line from the expander IC (IC14, pin 4).		
B_VHF3V	Receive 3 V converted from the B_R3V line by the +3 regulator (Q554). The regulator is controlled by the B_VHFC line from the expander IC (IC20, pin 2).		
B_UHF3V	Receive 3 V converted from the B_R3V line by the +3 regulator (Q554). The regulator is controlled by the B_UHFC line from the expander IC (IC20, pin 3).		
B_G3V	Receive 3 V converted from the B_R3V line by the +3 regulator (Q503). The regulator is controlled by the B_GC line from the expander IC (IC20, pin 4).		
B_800M3V	Receive 3 V converted from the B_R3V line by the +3 regulator (Q503). The regulator is controlled by the B_800MC line from the expander IC (IC20, pin 5).		
B_AM3V	Receive 3 V converted from the B_R3V line by the +3 regulator (Q546). The regulator is controlled by the B_AMC line from the expander IC (IC20, pin 18).		

4-5 PORT ALLOCATIONS 4-5-1 MAIN CPU PORT ALLOCATIONS (LOGIC UNIT; IC3)

Pin number	Port name	Description	
3	DATAC	Outputs data and clock control signal.	
8 9	CLS1 CLS0	Output clock shift signals.	
46	HVDET	Input port for the detecting signal whether the external power supply is connecting or not. Low: The external power supply is connected.	
17	AFON	Outputs control signal to the AF amplifier.	
18	POWER	Input port for [POWER] key.	
19	B_AMUTE	Outputs B-band mute control signal. High: While B-band is muting.	
20	A_AF_THURU	Outputs A-BAND de-emphasis control signal.	
21–24	A_DUD A_DCK B_DUD B_DCK	Input ports for [A-DIAL]/[B-DIAL].	
25	SQL	Input port for [SQL] switch. Low: While [SQL] switch is pushed.	
26	SUB_3C	Outputs REC unit regulator control signal. High: While recording or playing.	
31	A_VCO1	Outputs A-BAND's 1st LO control signal.	
34	VRSTR	Outputs strobe signals for volume.	
36	REC	Outputs recording LED control signal.	
38	CHGS	Outputs charging current control signal. High: While rapid charging.	
39	CHGC	Outputs charger circuit control signal. High: While charging.	
40	+3S	Outputs +3S regulator control signal.	
41	LIGHT	Outputs LCD back light control signal. Low: Lights ON.	
42	LD1	Outputs strobe signals to the expander IC (RF unit; IC14, pin 15).	
43	B2C	Outputs BAND2 selecting signal in the HF band.	
44	взс	Outputs BAND3 selecting signal in the HF band.	
45	B1C	Outputs BAND1 selecting signal in the HF band.	
46	HFC	Outputs HF band selecting signal at A-BAND.	
47	PLLDATA	Outputs data signal to the PLL IC.	

(LOGIC unit; IC3)-Continued

Pin number	Port name	Description	
48	STR2	Outputs strobe signal to the D/A converter IC (IC22, pin 1).	
49–52	KS3-KS1	Output key matrix signals.	
53	I1 PCON	Input port for the matrix signal.Outputs power ON/OFF control signal.	
54	L0 B_TCON	Input port for the matrix signal.Outputs B-RTONE filter amplifier control signal.	
55–61	KR5-KR0	Input ports for key matrix	
63	B_AF_THURU	Outputs B-BAND de-emphasis control signal.	
64	PLLASTB	Outputs strobe signals to the A-BAND 1st LO circuit.	
65	PLLCSTB	Outputs strobe signals to the A-BAND 2nd LO circuit.	
66	PLLESTB	Outputs strobe signals to the DOWN CONVERTER LO circuit.	
67	A_R3C	Outputs A-BAND power supply circuit control signal. Low: While A-BAND receiving.	
68	PLLCK	Outputs clock signal to the PLL IC.	
69	PLLDSTB	Outputs strobe signals to the B-BAND 2nd LO circuit.	
70	PLLBSTB	Outputs strobe signals to the B-BAND 1st LO circuit.	
71	A_TCON	Outputs A-RTONE filter amplifier control signal.	
72	LCD_CS	Outputs LCD chip select signal.	
74	BFOC	Outputs BFO control signal. Low: While SSB is receiving.	
75	B_R3C	Outputs B-BAND power supply circuit control signal. Low: While B-BAND receiving.	
76	LCD_RESET	Outputs reset signal to the LCD.	
77	LCD_RS	Outputs command and data signals to the LCD.	
78	LD2	Outputs strobe signals to the expander IC (RF unit; IC20, pin 15).	
79–81	B_VCO2 B_VCO3 B_VCO4	Leignale	
98	ECK	Outputs clock signal to the EEPROM (IC1, pin 6).	
99	ESIO	I/O port for data signal from/to the EEPROM (IC1, pin 5).	

4-5-2 SUB CPU PORT ALLOCATIONS (REC UNIT; IC2)

Pin number	Port name	Description	
18	RSTO	Input port for the USB reset signal.	
19	PWREN	Input port for the USB suspend signal.	
24	FIFOST	Outputs recording/playing select signal.	
25	CBUSY	Input port for the ADPCM command waiting signal.	
26–28	EMP MID FUL	Input ports for the ADPCM buffer signals.	
35 36	B_SQL A_SQL	Output recording mute signals.	
25	SUB_3C	Input port for the power supply verifying signal.	

4-5-3 EXPANDER IC PORT ALLOCATIONS (RF UNIT; IC22)

Pin number	Port name	Description	
4	DOWN_CONV	Outputs the down converter control signal.	
5	2GLO	Outputs 2002 MHz LO select signal for the down converter.	
6	1GLO	Outputs 1001 MHz LO select signal for the down converter.	
7	ANTSW	Outputs the bar antenna select signal. High: The bar antenna is selected.	
11	APS	Outputs the power save control signal to the A-BAND circuit. Low: While the A-BAND circuit is power saving.	
12	A_WFM	Outputs WFM mode select signal at the A-BAND circuit.	
13	NBC	Outputs noise blanker control signal.	
14	BPS	Outputs the power save control signal to the B-BAND circuit. Low: While the B-BAND circuit is power saving.	

4-5-4 D/A CONVERTER IC PORT ALLOCATIONS (RF UNIT; IC14)

Pin number	Port name	Description
2	A_VHFC	Outputs VHF band selecting signal at the A-BAND circuit.
3	A_300MC	Outputs 300 MHz band selecting signal at the A-BAND circuit.
4	A_UHFC	Outputs UHF band selecting signal at the A-BAND circuit.
6	A_VCO3	Outputs the A-BAND 1st LO circuit control signal.
7	A_NFMC	Outputs narrow FM mode selecting signal at the A-BAND circuit.
13	A_ANLC	Outputs ANL (Automatic Noise Limiter) control signal at A-BAND circuit. High: While ANL is ON.
18	A_AMC	Outputs AM mode selecting signal at the A-BAND circuit.
19	SSBC	Outputs narrow SSB mode selecting signal at the A-BAND circuit.

4-5-5 D/A CONVERTER IC PORT ALLOCATIONS (RF UNIT; IC20)

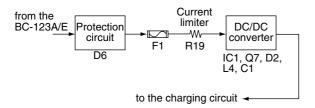
Pin number	Port name	Description	
2	B_VHFC	Outputs VHF band selecting signal at the B-BAND circuit.	
3	B_UHFC	Outputs UHF band selecting signal at the B-BAND circuit.	
4	B_GC	Outputs GHz band selecting signal at the B-BAND circuit.	
5	B-800MC	Outputs 800 MHz band selecting signal at the B-BAND circuit.	
7	A_WFMC	Outputs wide FM mode selecting signal at the B-BAND circuit.	
8	B_VCO1	Outputs the B-BAND 1st LO circuit control signal.	
9	B_ANLC	Outputs ANL (Automatic Noise Limiter) control signal at B-BAND circuit. High: While B-BAND ANL is ON.	
18	A_AMC	Outputs AM mode selecting signal at the B-BAND circuit.	
19	B_AM_FM	Outputs narrow AM or narrow FM mode selecting signal at the B-BAND circuit.	

4-6 BC-156 CIRCUIT DESCRIPTION

4-6-1 DC/DC CONVERTER CIRCUIT (MAIN UNIT)

Input voltage (8–16 V) from the BC-123A/E pass through reverse protection circuit (D6) via the J1. The voltage pass through the current limiter (R19) which can pass less than 2.0 A via the fuse (F1), and is then applied to the DC/DC converter circuit (IC2, Q7, D2, L1 and C4). The circuit converts 8–16 V input voltage to obtain approximately 5.2 V/2 A, and the converted voltage is applied to the charging circuit (IC1, Q1).

• DC/DC CONVERTER CIRCUIT



4-6-2 CHARGING CIRCUIT (MAIN UNIT AND TANSHI BOARD)

The converted voltage from the DC/DC converter circuit is applied to the charging circuit (MAIN unit; IC1, Q1), and is then applied to the TANSHI board via the J4, pins 1 and 2 (MAIN unit) as "CHGOUT" signal. The signal passes through the charging current detector (R1), and is then applied to the charging selector (TANSHI board; RL1) which is controlled by "CONT" signal. The signal is then applied to the CP1 (TANSHI board) as "SBATT+" signal or CP4 as "BATT+" signal.

A part of "CHGOUT" signal is applied to the charging circuit (IC1, pins 13 and 14) via the J1, pin 6 (TANSHI board) to control battery charging.

4-6-3 CHARGING CONTROL CIRCUIT (MAIN UNIT AND TANSHI BOARD)

• CHARGING THE BATTERY WITH IC-R20

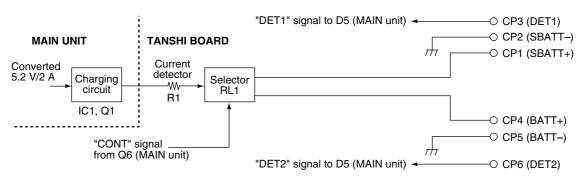
The "DET2" signal from the TANSHI board is applied to the D5 (MAIN unit) via the J4 (MAIN unit), and is then applied to the Q4 (MAIN unit). As Q4 turns ON, the output signal from Q4 is applied to the D4. The signal is applied to the Q3 to turn ON, then the output signal from Q3 is applied to the charging control IC (MAIN unit; IC1, pin 2). The IC controls Q1's base voltage to keep stable voltage/current battery charging.

A part of signal from Q4 (MAIN unit) is applied to the charging selector circuit (TANSHI board; RL1) via the J1, pin 8 (TANSHI board) as "CONT" signal.

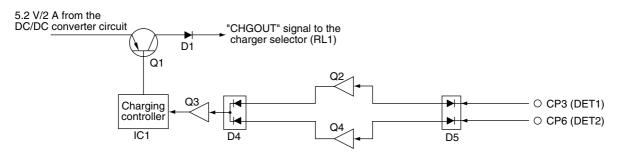
• CHARGING THE BATTERY ONLY

The "DET1" signal from the TANSHI board is applied to the D5 (MAIN unit) via the J4 (MAIN unit), and is then applied to the Q2 (MAIN unit). As Q2 turns ON, the output signal from Q2 is applied to the D4. The signal is applied to the Q3 to turn ON, then the output signal from Q3 is applied to the charging control IC (MAIN unit; IC1, pin 2). The IC controls Q1's base voltage to keep stable voltage/current battery charging.

• CHARGING CIRCUIT



• CHARGING CONTROL CIRCUIT



SECTION 5 ADJUSTMENT PROCEDURES

5-1 PREPARATION

Almost adjustments must be adjusted on the adjustment mode. The shorten plug (see below) is required when entering the adjustment mode.

■ REQUIRED TEST EQUIPMENT

EQUIPMENT	GRADE AND RANGE	EQUIPMENT	GRADE AND RANGE
DC power supply	Output voltage : 6.0 V DC	Digital multimeter	Input impedance : 10 kΩ/V DC or better
	Current capacity : 1 A or more	1	Frequency range : 0.1-3000 MHz
Frequency counter	Frequency range : 0.1–1000 MHz Frequency accuracy: ±1 ppm or better Sensitivity : 100 mV or better	Standard signal generator (SSG)	Output level : 0.1 µV–32 mV (–127 to –17 dBm)

■ ENTERING THE ADJUSTMENT MODE

- ① Connect the shorten plug to the [SP] jack.
- 2 Push and hold [8 SET], [MR S.MW], [BAND] and [MAIN/SUB] keys, and then turn power ON.

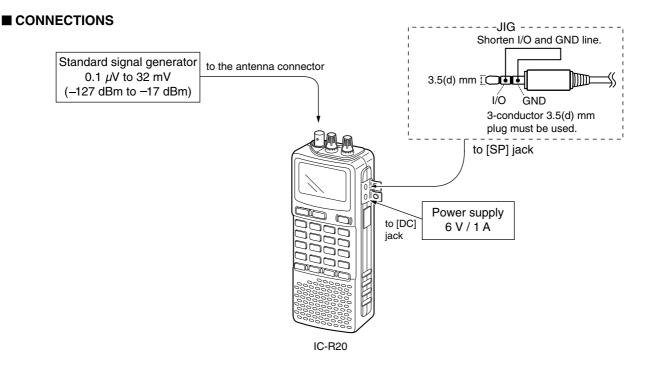
NOTE: Entering adjustment mode, keep on entering adjustment mode until dis-connect the shorten plug and turn power OFF.

■ OPERATION ON THE ADJUSTMENT MODE

Change the adjustment channel or item [UP] : [MR S.MW] key
Change the adjustment channel or item [DOWN] : [SCOPE] key
Change the adjustment value : [R-DIAL]

While entering adjustment mode, some adjustments must push [• LOCK] or [8 SET] keys to write the adjustment value to the CPU. Refer to following list in detail.

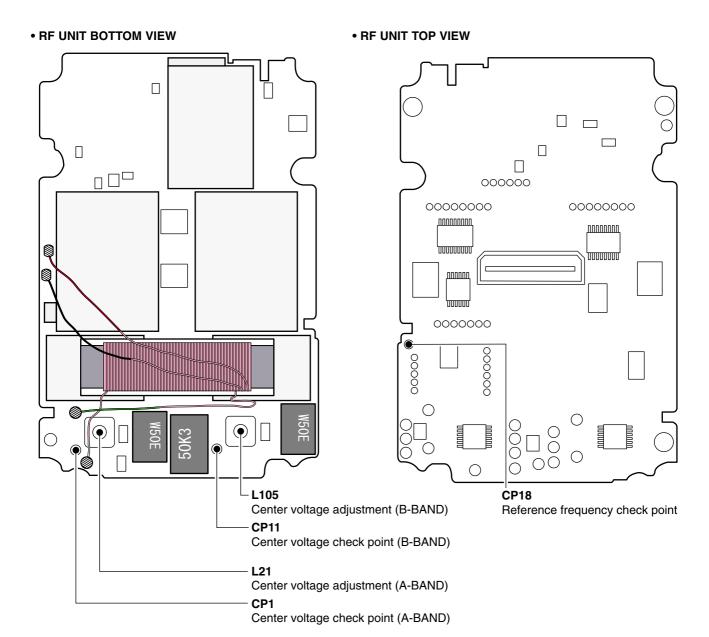
KEY	OPERATION		
	Write the REFERENCE FREQUENCY ADJUSTMENT value.		
[• LOCK]	Write the BFO ADJUSTMENT value.		
	Write the AFC ADJUSTMENT value.		
[8 SET]	Write the TRACKING ADJUSTMENT value.		
[5 52.]	Write the S-METER ADJUSTMENT value.		



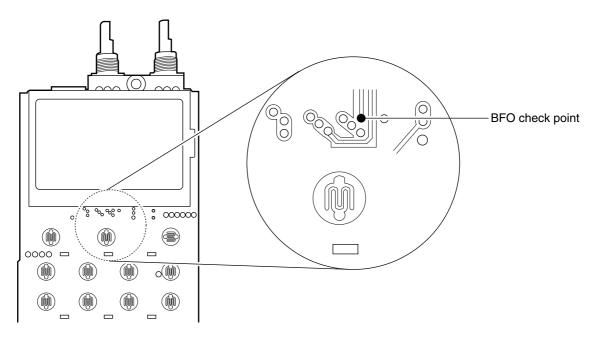
5-2 SOFTWARE ADJUSTMENTS

ADJUSTMENT		ADJUSTMENT CONDITION	OPERATION
REFERENCE FREQUENCY [REF]	1	 Connect the frequency counter to the check point CP18 on the RF unit. Receiving 	Rotate [R-DIAL] to set to 247.05000 MHz. Push [• LOCK] key.
CENTER VOLTAGE	1	Dual watch mode: ON Set the receiver to [A-BAND] and FM mode. Operating frequency: 145.100 MHz Connect an SSG to the antenna connector and set as Level: 1 mV* (-47 dBm) Frequency: 145.100 MHz Modulation: OFF Connect the Digital multimeter to the check point CP1 on the RF unit. Receiving	Adjust L21 to CP1 voltage to be 1.0 V.
	2	Set the receiver to [B-BAND] and FM mode. Operating frequency: 145.100 MHz Connect an SSG to the antenna connector and set as Level: 1 mV* (-47 dBm) Frequency: 145.100 MHz Modulation: OFF Connect the Digital multimeter to the check point CP11 on the RF unit. Receiving	Adjust L105 to CP11 voltage to be 1.0 V.
BFO [LSB]	1	 Connect the frequency counter to the check point on the LOGIC unit (See page 5-3). Receiving 	Rotate [R-DIAL] to set to 448.5 kHz. Push [• LOCK] key.
[USB]	2	 Connect the frequency counter to the check point on the LOGIC unit (See page 5-3). Receiving 	Rotate [R-DIAL] to set to 451.5 kHz. Push [• LOCK] key.
[CW]	3	 Connect the frequency counter to the check point on the LOGIC unit (See page 5-3). Receiving 	Rotate [R-DIAL] to set to 449.2 kHz. Push [• LOCK] key.
SSB-IF SHIFT [LSB-IFS]	1	Connect an SSG to the antenna connector and set as Frequency : 14.0990 MHz Modulation : OFF Receiving	Set an SSG's level to 10 dB S/N sensitivity (A). Measure the AF output level while the IC-R20 outputs 1 kHz signal (B).
	2	Set an SSG as Level : A+ 35 dB Frequency : 14.1005 MHz Modulation : OFF Receiving	Measure the AF output level (©). If AF output level © is lower than ®, skip this adjustment. If AF output level © is higher than ®, rotate [R-DIAL] to adjust the AF output level to the same level as ®. Push [* LOCK] key.
[USB-IFS]	3	Connect an SSG to the antenna connector and set as Frequency : 14.1010 MHz Modulation : OFF Receiving	Set an SSG's level to 10 dB S/N sensitivity (A). Measure the AF output level while the IC-R20 outputs 1 kHz signal (B).
	4	Set an SSG as Level : A+ 35 dB Frequency : 14.0995 MHz Modulation : OFF Receiving	Measure the AF output level (©). If AF output level © is lower than B, skip this adjustment. If AF output level © is higher than B, rotate [R-DIAL] to adjust the AF output level to the same level as B. Push [• LOCK] key.

^{*}This output level of a standard signal generator (SSG) is indicated as SSG's open circuit.



• BFO CHECK POINT (LOGIC UNIT TOP VIEW)



ADJUSTMENT		ADJUSTMENT CONDITION	OPERATION
AFC [AFC] (FM A-BAND)	1	Mode : FM Connect an SSG to the antenna connector and set as Level : 1 mV* (-47 dBm) Frequency : 145.100 MHz Modulation : OFF Receiving	• Push [• LOCK] key.
(WFM A-BAND)	2	Mode : WFM Receiving	• Push [• LOCK] key.
(FM B-BAND)	3	Mode : FM Receiving	Push [• LOCK] key.
(WFM B-BAND)	4	Mode : WFM Receiving	Push [• LOCK] key.
TRACKING [TRL/TRH] (0.495 MHz Bar Antenna tuning)	1	Mode : FM Connect an SSG to the antenna connector and set as Level : 71 mV* (–10 dBm) Frequency : 0.495 MHz Modulation : ±1 kHz Deviation : ±3.5 kHz Receiving	• Push [8 SET] key.
(1.620 MHz Bar Antenna tuning)	2	Connect an SSG to the antenna connector and set as Level : 220 mV* (0 dBm) Frequency : 1.620 MHz Receiving	• Push [8 SET] key.
(118.1 MHz RF amplifier tuning)	3	Mode : FM Connect an SSG to the antenna connector and set as Level : 0.56 μV* (–112 dBm) Frequency : 118.1 MHz Receiving	• Push [8 SET] key.
(174.9 MHz RF amplifier tuning)	4	Connect an SSG to the antenna connector and set as Frequency : 174.9 MHz Receiving	• Push [8 SET] key.
(330.1 MHz RF amplifier tuning)	5	Connect an SSG to the antenna connector and set as Frequency : 330.1 MHz Receiving	• Push [8 SET] key.
(469.9 MHz RF amplifier tuning)	6	Connect an SSG to the antenna connector and set as Frequency : 469.9 MHz Receiving	Push [8 SET] key.
(118.1 MHz RF amplifier tuning)	7	Connect an SSG to the antenna connector and set as Frequency : 118.1 MHz Receiving	Push [8 SET] key.
(174.9 MHz RF amplifier tuning)	8	Connect an SSG to the antenna connector and set as Frequency : 174.9 MHz Receiving	Push [8 SET] key.
(330.1 MHz RF amplifier tuning)	9	Connect an SSG to the antenna connector and set as Frequency : 330.1 MHz Receiving	Push [8 SET] key.
(469.9 MHz RF amplifier tuning)	10	Connect an SSG to the antenna connector and set as Frequency : 469.9 MHz Receiving	Push [8 SET] key.
(470.1 MHz RF amplifier tuning)	11	Connect an SSG to the antenna connector and set as Frequency : 470.1 MHz Receiving	Push [8 SET] key.
(599.9 MHz RF amplifier tuning)	12	Connect an SSG to the antenna connector and set as Frequency : 599.9 MHz Receiving	• Push [8 SET] key.

^{*}This output level of a standard signal generator (SSG) is indicated as SSG's open circuit.

ADJUSTMENT		ADJUSTMENT CONDITION	OPERATION	
S-METER [S-M] (1.81 MHz FM mode)	1	 Mode : FM Connect an SSG to the antenna connector and set as Level : 0.56 μV* (-112 dBm) Frequency : 1.81 MHz Modulation : ±1 kHz Deviation : ±3.5 kHz Receiving 	• Push [8 SET] key.	
(1.81 MHz WFM mode)	2	Mode : WFM Connect an SSG to the antenna connector and set as Level	Push [8 SET] key.	
(14.1 MHz FM mode)	3	Mode : FM Connect an SSG to the antenna connector and set as Level : 0.56 μV* (−112 dBm) Frequency : 14.1 MHz Deviation : ±3.5 kHz Receiving	• Push [8 SET] key.	
(14.1 MHz WFM mode)	4	Mode : WFM Connect an SSG to the antenna connector and set as Level : 5.6 μV* (–92 dBm) Deviation : ±52.5 kHz Receiving	Push [8 SET] key.	
(145.1 MHz FM mode)	5	Mode : FM Connect an SSG to the antenna connector and set as Level : 0.56 µV* (-112 dBm) Frequency : 145.1 MHz Deviation : ±3.5 kHz Receiving	Push [8 SET] key.	
(145.1 MHz WFM mode)	6	Mode : WFM Connect an SSG to the antenna connector and set as Level Deviation : ±52.5 kHz Receiving	Push [8 SET] key.	
(201.1 MHz FM mode)	7	Mode : FM Connect an SSG to the antenna connector and set as Level : 0.56 μV* (-112 dBm) Frequency : 201.1 MHz Deviation : ±3.5 kHz Receiving	• Push [8 SET] key.	
(201.1 MHz WFM mode)	8	Mode : WFM Connect an SSG to the antenna connector and set as Level Deviation : ±52.5 kHz Receiving	Push [8 SET] key.	
(435.1 MHz FM mode)	9	Mode : FM Connect an SSG to the antenna connector and set as Level : 0.56 μV* (–112 dBm) Frequency : 435.1 MHz Deviation : ±3.5 kHz Receiving	• Push [8 SET] key.	
(435.1 MHz WFM mode)	10	Mode	• Push [8 SET] key.	

^{*}This output level of a standard signal generator (SSG) is indicated as SSG's open circuit.

ADJUSTMEN	ΙT	ADJUSTMENT CONDITION	OPERATION
S-METER [S-M] (1400.1 MHz FM mode)	11	Mode : FM Connect an SSG to the antenna connector and set as Level : 0.56 μV* (-112 dBm) Frequency : 1400.1 MHz Modulation : ±1 kHz Deviation : ±3.5 kHz Receiving	• Push [8 SET] key.
(1400.1 MHz WFM mode)	12	Mode : WFM Connect an SSG to the antenna connector and set as Level	Push [8 SET] key.
S-METER [S-M] (145.1 MHz FM mode)	13	Mode : FM Connect an SSG to the antenna connector and set as Level : 0.56 µV* (-112 dBm) Frequency : 145.1 MHz Deviation : ±3.5 kHz Receiving	• Push [8 SET] key.
(145.1 MHz WFM mode)	14	Mode : WFM Connect an SSG to the antenna connector and set as Level	Push [8 SET] key.
(435.1 MHz FM mode)	15	Mode : FM Connect an SSG to the antenna connector and set as Level : 0.56 μV* (–112 dBm) Frequency : 435.1 MHz Deviation : ±3.5 kHz Receiving	• Push [8 SET] key.
(435.1 MHz WFM mode)	16	Mode : WFM Connect an SSG to the antenna connector and set as Level	Push [8 SET] key.
(650.1 MHz FM mode)	17	Mode: FM Connect an SSG to the antenna connector and set as Level: 0.56 µV* (-112 dBm) Frequency: 650.1 MHz Deviation: ±3.5 kHz Receiving	• Push [8 SET] key.
(650.1 MHz WFM mode)	18	Mode : WFM Connect an SSG to the antenna connector and set as Level Deviation : ±52.5 kHz Receiving	Push [8 SET] key.
(1100.1 MHz FM mode)	19	Mode : FM Connect an SSG to the antenna connector and set as Level : 0.56 μV* (–112 dBm) Frequency : 1100.1 MHz Deviation : ±3.5 kHz Receiving	• Push [8 SET] key.
(1100.1 MHz WFM mode)	20	Mode Connect an SSG to the antenna connector and set as Level Modulation Esceiving WFM Connect an SSG to the antenna connector and set as Level S Esceiving	• Push [8 SET] key.

^{*}This output level of a standard signal generator (SSG) is indicated as SSG's open circuit.

ADJUSTMEN	IT	ADJUSTMENT CONDITIO	N	OPERATION
S-METER [S-M] (2510.1 MHz FM mode)	21	 Mode : FM Connect an SSG to the antenna conne Level : 0.56 μV* Frequency : 2510.1 M Modulation : ±1 kHz Deviation : ±3.5 kHz Receiving 	ector and set as (-112 dBm) IHz	• Push [8 SET] key.
(2510.1 MHz WFM mode)	22	• Mode : WFM • Connect an SSG to the antenna conne Level : 32 µV* (- Deviation : ±52.5 kH • Receiving	ector and set as -77 dBm)	• Push [8 SET] key.

^{*}This output level of a standard signal generator (SSG) is indicated as SSG's open circuit.

SECTION 6 PARTS LIST

6-1 IC-R20

[1STAVCO BOARD]

				$\overline{}$
REF NO.	ORDER NO.		DESCRIPTION	М.
	_			
IC2	1110005180	S.IC	μPC2746TB-E3	В
IC3	1130011660	S.IC	MB15T61ULPVA-G-ER	В
Q1	1530003260	S.TRANSISTOR	2SC5006-T1	т
Q2	1530003260	S.TRANSISTOR		Τl
Q3	1530003260	S.TRANSISTOR	2SC5006-T1	Т
Q6	1560000530	S.FET	2SK880-GR (TE85R)	В
Q7	1530003000		2SC4117-BL (TE85R)	В
Q8	1530003580	S.TRANSISTOR		В
Q9 Q11	1530003580 1590001810	S.TRANSISTOR S.TRANSISTOR		B B
Q12	1590001810		` '	В
Q13	1530003590	S.TRANSISTOR	` ,	В
D.4	4700000400	0.1/4.510.4.5	10)/045 (TDU0)	_
D1	1720000400		1SV245 (TPH3)	T
D2 D3	1720000400 1750001050		1SV245 (TPH3) HVC417CTRU	T T
D3	1750001050		HVC417CTRU	╎╷
D7	1790001620		1SV308 (TPL3)	۱÷۱
D8	1790001620		1SV308 (TPL3)	Т
D9	1790001620	S.DIODE	1SV308 (TPL3)	Т
L1	6200009350	S.COIL	ELJRE R22G-F3	т
L2	6200009350		ELJRE R22G-F3	-
L3	6200010030		C2012C-15NG	Т
L4	6200003960	S.COIL	MLF1608A 1R0K-T	Т
L5	6200009350	S.COIL	ELJRE R22G-F3	T
L6	6200009980		C2012C-18NG	T
L7 L8	6200003960 6200009350		MLF1608A 1R0K-T ELJRE R22G-F3	T T
L9	6200009330		LQW18AN27NG00D (LQW1608A27NG00)	۱÷۱
L10	6200003960	S.COIL	MLF1608A 1R0K-T	т
R1	7020004070	e pecietop	ERJ2GEJ 470 X (47 Ω)	_T $ $
R2	7030004970 7030004990		ERJ2GEJ 470 X (47 Ω) ERJ2GEJ 221 X (220 Ω)	╎┆╽
R3	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	۱÷ ا
R4	7030005210	S.RESISTOR	ERJ2GEJ 822 X (8.2 kΩ)	Τl
R5	7030004990	S.RESISTOR	ERJ2GEJ 221 X (220 Ω)	Т
R6	7030004970	S.RESISTOR	ERJ2GEJ 470 X (47 Ω)	Т
R7	7030004990		ERJ2GEJ 221 X (220 Ω)	T
R8 R9	7030005040 7030005210	S.RESISTOR S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ) ERJ2GEJ 822 X (8.2 kΩ)	T T
R10	7030005210		ERJ2GEJ 822 X (8.2 KΩ) ERJ2GEJ 221 X (220 Ω)	╏╏
R11	7030004930		ERJ2GEJ 470 X (47 Ω)	۱÷۱
R12	7030004990		ERJ2GEJ 221 X (220 Ω)	T
R13	7030005040		ERJ2GEJ 472 X (4.7 kΩ)	Т
R14	7030005210		ERJ2GEJ 822 X (8.2 kΩ)	T
R15 R23	7030007280 7030005120	S.RESISTOR S.RESISTOR	ERJ2GEJ 331 X (330 Ω) ERJ2GEJ 102 X (1 kΩ)	T B
R24	7030003120		ERJ2GEJ 102 X (1 kΩ) ERJ2GEJ 332 X (3.3 kΩ)	В
R25	7030004990	S.RESISTOR	ERJ2GEJ 221 X (220 Ω)	В
R26	7030005290	S.RESISTOR	ERJ2GEJ 682 X (6.8 kΩ)	В
R27	7030005210		ERJ2GEJ 822 X (8.2 kΩ)	В
R28	7030007340	S.RESISTOR	ERJ2GEJ 153 X (15 kΩ)	В
R29 R30	7030005090 7030004990	S.RESISTOR S.RESISTOR	ERJ2GEJ 104 X (100 kΩ) ERJ2GEJ 221 X (220 Ω)	B B
R31	7030004990	S.RESISTOR	ERJ2GEJ 823 X (82 kΩ)	В
R32	7030007270		ERJ2GEJ 151 X (150 Ω)	В
R33	7030007260	S.RESISTOR	ERJ2GEJ 330 X (33 Ω)	В
R34	7030004990	S.RESISTOR	ERJ2GEJ 221 X (220 Ω)	В
R35 R36	7030009140 7030005040	S.RESISTOR S.RESISTOR	ERJ2GEJ 272 X (2.7 kΩ) ERJ2GEJ 472 X (4.7 kΩ)	B T
R37	7030005040		ERJ2GEJ 472 X (4.7 kΩ)	
R38	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	Τ
R40	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	В
R41	7030005300	S.RESISTOR	ERJ2GEJ 150 X (15 Ω)	В
R42	7030004970	S.RESISTOR	ERJ2GEJ 470 X (47 Ω)	В
R43 R44	7030005080 7030004990	S.RESISTOR S.RESISTOR	ERJ2GEJ 823 X (82 kΩ) ERJ2GEJ 221 X (220 Ω)	B B
R45	7030004330	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	В
			` '	Ш

[1STAVCO BOARD]

[1STAVCO BOARD]				
REF NO.	ORDER NO.		DESCRIPTION	М.
R46	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	В
R47	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	В
R48	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	В
R49	7030008300	S.RESISTOR	ERJ2GEJ 184 X (180 kΩ)	В
R50	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	В
R51	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	В
R52	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	В
R53	7030005570	S.RESISTOR	ERJ2GEJ 820 X (82 Ω)	В
R54	7030004970	S.RESISTOR	ERJ2GEJ 470 X (47 Ω)	Т
R55	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 k Ω) [EUR], [UK], [USA], [CAN]	В
	7030010040	S.RESISTOR	ERJ2GE-JPW [SEA], [EXP-01], [EXP-02]	В
R56	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 $k\Omega$) [EUR], [UK], [USA], [CAN]	В
	7030010040	S.RESISTOR	ERJ2GE-JPW [SEA], [EXP-01], [EXP-02]	В
R57	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 $k\Omega$) [EUR], [UK], [USA], [CAN]	В
	7030010040	S.RESISTOR	ERJ2GE-JPW [SEA], [EXP-01], [EXP-02]	В
			[0=/1], [=/11 0/1], [=/11 0=]	
C1 C2	4030017460 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	T T
C3	4030017460	S.CERAMIC	ECJ0EC1H030B	T
C4	4030017570	S.CERAMIC	ECJ0EC1H040B	.
C5	4030017460	S.CERAMIC	ECJ0EB1E102K	.
C6	4030016930	S.CERAMIC	ECJ0EB1A104K	<u>†</u>
C7	4030017530	S.CERAMIC	ECJ0EC1H0R5B	-
C8	4030016930	S.CERAMIC	ECJ0EB1A104K	T
C9	4030017460	S.CERAMIC	ECJ0EB1E102K	Т
C10	4030017460	S.CERAMIC	ECJ0EB1E102K	Т
C11	4030017350	S.CERAMIC	ECJ0EC1H020B	Т
C12	4030017460	S.CERAMIC	ECJ0EB1E102K	Т
C13	4030016930	S.CERAMIC	ECJ0EB1A104K	Т
C14	4030017530	S.CERAMIC	ECJ0EC1H0R5B	Т
C15	4030016930	S.CERAMIC	ECJ0EB1A104K	Т
C16	4030017360	S.CERAMIC	ECJ0EC1H030B	Т
C17	4030017460	S.CERAMIC	ECJ0EB1E102K	Т
C18	4030017460	S.CERAMIC	ECJ0EB1E102K	Т
C19	4030017600	S.CERAMIC	ECJ0EC1H080C	Т
C20	4030017570	S.CERAMIC	ECJ0EC1H040B	T
C21	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C22	4030016930	S.CERAMIC	ECJ0EB1A104K	T
C23	4030017530	S.CERAMIC	ECJ0EC1H0R5B	<u>T</u>
C24	4030016930	S.CERAMIC	ECJ0EB1A104K	T
C31	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C35	4030017770	S.CERAMIC	ECJ0EB1E332K	В
C37	4550003220		TEESVA 1E 105M8L	В
C38	4550000930		TEESVA 1D 684M8L	В
C39	4550000930	S.TANTALUM	TEESVA 1D 684M8L ECJ0EB1C103K	B T
C40	4030016790	S.CERAMIC		
C41	4030017460 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K	B B
C42 C43	4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EC1H020B	B
C43	4030017350	S.CERAMIC S.CERAMIC	ECJ0ECTH020B ECJ0EB1E102K	В
C44 C46	4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	В
C46	4030017460	S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	В
C47	4340000290	S.MYLAR	ECHU 1C 103JX5	В
C49	4030017620	S.CERAMIC	ECJ0EC1H100C	В
C50	4030017380	S.CERAMIC	ECJ0EC1H050B	В
C52	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C53	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C54	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C55	4030017460	S.CERAMIC	ECJ0EB1E102K	Т
C56	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C58	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C59	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C60	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C61	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C62	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C63	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C64	4550007040	S.TANTALUM	ECST0JZ106R	В
C65	4550007040	S.TANTALUM	ECST0JZ106R	В
C66	4550007040	S.TANTALUM	ECST0JZ106R	В
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M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

[1STAVCO BOARD]

REF NO.	ORDER NO.		DESCRIPTION	М.
C67	4030017460	S.CERAMIC	ECJ0EB1E102K [EUR], [UK], [USA], [CAN]	В
J1	6910015520	CONNECTOR	IMSA-9230B-1-07Z064-T	В
J2	6910015510	CONNECTOR	IMSA-9230B-1-08Z064-T	В
EP1	0910058163	PCB	B 6080C	

[1STBVCO BOARD]

REF NO.	ORDER NO.		DESCRIPTION	М.
IC2	1110005180	S.IC	μPC2746TB-E3	В
IC3	1130011660	S.IC	MB15T61ULPVA-G-ER	В
Q1	1530003260	S.TRANSISTOR		Т
Q2	1530003260	S.TRANSISTOR		T
Q3	1530003260	S.TRANSISTOR		T
Q4 Q5	1530003260 1530003260	S.TRANSISTOR S.TRANSISTOR		T T
Q6	1560000530	S.FET	2SK880-GR (TE85R)	В
Q7	1530003000		2SC4117-BL (TE85R)	В
Q8	1530003580	S.TRANSISTOR	2SC5231C8-TL	В
Q9	1530003580	S.TRANSISTOR		В
Q10	1590001810	S.TRANSISTOR		В
Q11	1590001810	S.TRANSISTOR	` '	B B
Q12	1530003590	S.TRANSISTOR	25C5211D2-1L	В
D1	1720000400	S.VARICAP	1SV245 (TPH3)	Т
D2	1720000400	S.VARICAP	1SV245 (TPH3) HVC417CTRU	T T
D3 D4	1750001050 1750001050	S.VARICAP S.VARICAP	HVC417CTRU	<u> </u>
D5	1750001050	S.VARICAP	HVC417CTRU	+
D7	1790001620	S.DIODE	1SV308 (TPL3)	Т
D8	1790001620	S.DIODE	1SV308 (TPL3)	Т
D9	1790001620	S.DIODE	1SV308 (TPL3)	T
D10	1790001620	S.DIODE	1SV308 (TPL3)	Т
L1	6200009350	S.COIL	ELJRE R22G-F3	Т
L2	6200009350	S.COIL	ELJRE R22G-F3	T
L3	6200010020	S.COIL	C2012C-12NG	T
L4 L5	6200003960 6200009350	S.COIL S.COIL	MLF1608A 1R0K-T ELJRE R22G-F3	T T
L6	6200010020	S.COIL	C2012C-12NG	Τ
L7	6200003960	S.COIL	MLF1608A 1R0K-T	Т
L8	6200009350	S.COIL	ELJRE R22G-F3	T
L9	6200009280	S.COIL	LQW18AN27NG00D (LQW1608A27NG00) MLF1608A 1R0K-T	T T
L10 L11	6200003960 6200004940	S.COIL S.COIL	MLF1608A 1R0K-1 MLF1608D R27K-T	<u> </u>
L12	6200010210	S.COIL	C2012C-22NG	-
L13	6200005740	S.COIL	ELJRE 47NG-F	Т
L14	6200005740	S.COIL	ELJRE 47NG-F	Т
R1	7030004970	S.RESISTOR	ERJ2GEJ 470 X (47 Ω)	Т
R2	7030004990	S.RESISTOR	ERJ2GEJ 221 X (220 Ω)	Ť
R3	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	Т
R4	7030005210	S.RESISTOR	ERJ2GEJ 822 X (8.2 kΩ)	Т
R5	7030007250	S.RESISTOR	ERJ2GEJ 220 X (22 Ω)	_
	7030009160	S.RESISTOR	[SEA], [EXP-01], [EXP-02] ERJ2GEJ 181 X (180 Ω)	T
R6	7030004970	S.RESISTOR	[EUR], [UK], [USA], [CAN] ERJ2GEJ 470 X (47 Ω)	T T
R7	7030004990	S.RESISTOR	ERJ2GEJ 221 X (220 Ω)	Т
R8	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	T
R9	7030005210	S.RESISTOR	ERJ2GEJ 822 X (8.2 kΩ)	Т
R10	7030004990	S.RESISTOR	ERJ2GEJ 221 X (220 Ω) [EUR], [UK], [USA], [CAN]	Т
	7030007250	S.RESISTOR	ERJ2GEJ 220 X (22 Ω) [SEA], [EXP-01], [EXP-02]	Т
R11	7030004970	S.RESISTOR	ERJ2GEJ 470 X (47 Ω)	Т
R12	7030004990	S.RESISTOR	ERJ2GEJ 221 X (220 Ω)	T
R13	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	Т

[1STBVCO BOARD]

[1STBVCO BOARD]					
REF NO.	ORDER NO.		DESCRIPTION	М.	
R14	7030005210	S.RESISTOR	ERJ2GEJ 822 X (8.2 kΩ)	Т	
R15	7030005000	S.RESISTOR	ERJ2GEJ 471 X (470 Ω)	T	
R16 R17	7030005290 7030005710	S.RESISTOR S.RESISTOR	ERJ2GEJ 682 X (6.8 kΩ) ERJ2GEJ 121 X (120 Ω)	T T	
R18	7030005710	S.RESISTOR	ERJ2GEJ 682 X (6.8 kΩ)	Ϊ́τ	
R19	7030007280	S.RESISTOR	ERJ2GEJ 331 X (330 Ω)	T	
R23	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	В	
R24	7030007300	S.RESISTOR	ERJ2GEJ 332 X (3.3 kΩ)	В	
R25 R26	7030004990 7030005290	S.RESISTOR S.RESISTOR	ERJ2GEJ 221 X (220 Ω) ERJ2GEJ 682 X (6.8 kΩ)	B B	
R27	7030005290	S.RESISTOR	ERJ2GEJ 822 X (8.2 kΩ)	В	
R28	7030007340	S.RESISTOR	ERJ2GEJ 153 X (15 kΩ)	В	
R29	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	В	
R30	7030004990	S.RESISTOR	ERJ2GEJ 221 X (220 Ω)	В	
R31 R32	7030005080 7030007270	S.RESISTOR S.RESISTOR	ERJ2GEJ 823 X (82 kΩ) ERJ2GEJ 151 X (150 Ω)	B B	
R33	7030007270	S.RESISTOR	ERJ2GEJ 330 X (33 Ω)	В	
R34	7030004990	S.RESISTOR	ERJ2GEJ 221 X (220 Ω)	В	
R35	7030009140	S.RESISTOR	ERJ2GEJ 272 X (2.7 kΩ)	В	
R36	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	T	
R37 R38	7030005040 7030005040	S.RESISTOR S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ) ERJ2GEJ 472 X (4.7 kΩ)	T T	
R39	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	Ϊ́Τ	
R40	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	В	
R41	7030005300	S.RESISTOR	ERJ2GEJ 150 X (15 Ω)	В	
R42	7030004970	S.RESISTOR	ERJ2GEJ 470 X (47 Ω)	В	
R43 R44	7030005080 7030004990	S.RESISTOR S.RESISTOR	ERJ2GEJ 823 X (82 kΩ) ERJ2GEJ 221 X (220 Ω)	B B	
R45	7030004990	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	В	
R46	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	В	
R47	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	В	
R48	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	В	
R49 R50	7030008300 7030005090	S.RESISTOR S.RESISTOR	ERJ2GEJ 184 X (180 kΩ) ERJ2GEJ 104 X (100 kΩ)	B B	
R51	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	В	
R52	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	В	
R53	7030005570	S.RESISTOR	ERJ2GEJ 820 X (82 Ω)	В	
R54 R55	7030004970 7030005120	S.RESISTOR S.RESISTOR	ERJ2GEJ 470 X (47 Ω) ERJ2GEJ 102 X (1 kΩ)	Т	
100	7030003120	3.HL3I3TON	[EUR], [UK], [USA], [CAN]	В	
	7030010040	S.RESISTOR	ERJ2GE-JPW [SEA], [EXP-01], [EXP-02]	В	
R56	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ) [EUR], [UK], [USA], [CAN]		
	7030010040	S.RESISTOR	ERJ2GE-JPW [SEA], [EXP-01], [EXP-02]	В	
R57	7030005120	S.RESISTOR	[SEA], [EXF-07], [EXF-02] ERJ2GEJ 102 X (1 kΩ) [EUR], [UK], [USA], [CAN]	В	
	7030010040	S.RESISTOR	ERJ2GE-JPW		
			[SEA], [EXP-01], [EXP-02]		
C1	4030017460	S.CERAMIC	ECJ0EB1E102K	Т	
C2	4030017460	S.CERAMIC	ECJ0EB1E102K	Т	
C3	4030017350	S.CERAMIC	ECJ0EC1H020B	T	
C4 C5	4030017350 4030017460	S.CERAMIC S.CERAMIC	ECJ0EC1H020B ECJ0EB1E102K	T T	
C6	4030016930	S.CERAMIC	ECJ0EB1A104K	T	
C7	4030017530	S.CERAMIC	ECJ0EC1H0R5B	Т	
C8	4030016930	S.CERAMIC	ECJ0EB1A104K	T	
C9 C10	4030017460 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	T T	
C10	4030017400	S.CERAMIC	ECJ0EC1H020B	Ϊ́Τ	
C12	4030017460	S.CERAMIC	ECJ0EB1E102K	Ť	
C13	4030016930	S.CERAMIC	ECJ0EB1A104K	Т	
C14	4030017530	S.CERAMIC	ECJ0EC1H0R5B	T	
C15 C16	4030016930 4030017570	S.CERAMIC S.CERAMIC	ECJ0EB1A104K ECJ0EC1H040B	T T	
C17	4030017460	S.CERAMIC	ECJ0EB1E102K	Ť	
C18	4030017460	S.CERAMIC	ECJ0EB1E102K	Т	
C19	4030017600	S.CERAMIC	ECJ0EC1H080C	T	
C20 C21	4030017570 4030017460	S.CERAMIC S.CERAMIC	ECJ0EC1H040B ECJ0EB1E102K	T T	
C22	4030017460	S.CERAMIC	ECJ0EB1E102K ECJ0EB1A104K	†	
C23	4030017530	S.CERAMIC	ECJ0EC1H0R5B	Ť	
C24	4030016930	S.CERAMIC	ECJ0EB1A104K	T	
C25 C26	4030017460 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	T T	
C26	4030017460	S.CERAMIC S.CERAMIC	ECJ0EBTET02K ECJ0EC1HR75B	 	
C28	4030017540	S.CERAMIC	ECJ0EC1HR75B	Т	
C29	4030017460	S.CERAMIC	ECJ0EB1E102K	Т	
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M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

[1STBVCO BOARD]

[TOTBYOO BOATES]					
REF NO.	ORDER NO.		DESCRIPTION	М.	
C30	4030017460	S.CERAMIC	ECJ0EB1E102K	Т	
C31	4030017460	S.CERAMIC	ECJ0EB1E102K	В	
C35	4030017770	S.CERAMIC	ECJ0EB1E332K	В	
C37	4550003220	S.TANTALUM	TEESVA 1E 105M8L	В	
C38	4550000930	S.TANTALUM	TEESVA 1D 684M8L	В	
C39	4550000930	S.TANTALUM	TEESVA 1D 684M8L	В	
C40	4030016790	S.CERAMIC	ECJ0EB1C103K	В	
C41	4030017460	S.CERAMIC	ECJ0EB1E102K	В	
C42	4030017460	S.CERAMIC	ECJ0EB1E102K	В	
C43	4030017350	S.CERAMIC	ECJ0EC1H020B	В	
C44	4030017460	S.CERAMIC	ECJ0EB1E102K	В	
C45	4030017530	S.CERAMIC	ECJ0EC1H0R5B	Τ .	
C46	4030017460	S.CERAMIC	ECJ0EB1E102K	В	
C47	4030017460	S.CERAMIC	ECJ0EB1E102K	В	
C48	4340000290	S.MYLAR	ECHU 1C 103JX5	В	
C49	4030017620	S.CERAMIC	ECJ0EC1H100C	В	
C50	4030017380	S.CERAMIC	ECJ0EC1H050B	В	
C52	4030017460	S.CERAMIC	ECJ0EB1E102K	В	
C53	4030017460	S.CERAMIC	ECJ0EB1E102K	В	
C54	4030017460	S.CERAMIC	ECJ0EB1E102K	Τ .	
C55	4030017460	S.CERAMIC	ECJ0EB1E102K	Т	
C56	4030017460	S.CERAMIC	ECJ0EB1E102K	T	
C57	4030017460	S.CERAMIC	ECJ0EB1E102K	T	
C58	4030016930	S.CERAMIC	ECJ0EB1A104K	В	
C59	4030016790	S.CERAMIC	ECJ0EB1C103K	В	
C60	4030016790	S.CERAMIC	ECJ0EB1C103K	В	
C61	4030016930	S.CERAMIC	ECJ0EB1A104K	В	
C62	4030016930	S.CERAMIC	ECJ0EB1A104K	В	
C63	4030017460	S.CERAMIC	ECJ0EB1E102K	В	
C64	4550007040	S.TANTALUM	ECST0JZ106R	В	
C65	4550007040	S.TANTALUM	ECST0JZ106R	В	
C66	4550007040	S.TANTALUM	ECST0JZ106R	В	
C67	4550007040	S.TANTALUM	ECST0JZ106R	В	
C68	4030017460	S.CERAMIC	ECJ0EB1E102K	_	
			[EUR], [UK], [USA], [CAN] only	В	
J1	6910015520	CONNECTOR	IMSA-9230B-1-07Z064-T	В	
J2	6910015510	CONNECTOR	IMSA-9230B-1-08Z064-T	В	
EP1	0910058174	РСВ	B 6081D		

[2NDCVCO BOARD]

	2NDCVCO BOARDJ					
REF NO.	ORDER NO.		DESCRIPTION	М.		
R17 R18 R19 R21 R22	7030008300 7030005120 7030005120 7030005120 7030007280	S.RESISTOR S.RESISTOR S.RESISTOR	ERJ2GEJ 184 X (180 kΩ) ERJ2GEJ 102 X (1 kΩ) ERJ2GEJ 102 X (1 kΩ) ERJ2GEJ 102 X (1 kΩ) ERJ2GEJ 331 X (330 Ω)	T T T B		
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C16 C17 C18 C20 C21 C22 C23 C24 C25 C26 C27 C30 C31 C32 C33	4550006910 4030017390 4030017640 4030017620 4030017630 4030017570 4030017340 4030017380 4030017380 4030017380 4030017420 4030017420 4030017420 4030016790 4030016790 4030016790 4030017460 4030017460 4030017460 4030017460 4030017460 4030017460 4030017460 4030017460 4030017460 4030017460 4030017460 4030017460	S.CERAMIC	TEESVP 1C 334M8R ECJ0EC1H180J ECJ0EC1H150J ECJ0EC1H100C ECJ0EC1H120J ECJ0EB1E102K ECJ0EC1H040B ECJ0EC1H050B ECJ0EC1H470J ECJ0EC1H470J ECJ0EC1H470J ECJ0EB1C103K ECJ0EB1C103K ECJ0EB1C103K ECJ0EB1C103K ECJ0EB1E102K	T T T T T T T T T T T B B B B B B T T T T B B B B B T		
J1 J2	6910010840 6910014430	CONNECTOR CONNECTOR	IMSA-9230B-1-05Z057-T IMSA-9230B-1-06Z057-T	T		
EP1	0910058183	РСВ	B 6082C			

[2NDCVCO BOARD]

REF NO.	ORDER NO.		DESCRIPTION	М.
IC1	1130011670	S.IC	MB15E03SLPFV1-G-BND-ER	В
Q1 Q3 Q4	1530003610 1530003590 1530003630	S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR	2SC5277D2-TL	T T T
D1	1750000740	S.VARICAP	1SV314 (TPH3)	Т
L1 L2 L3 L4	6200009070 6200005720 6200005700 6200009350	S.COIL	LQW18AN18NG00D (LQW1608A18NG00) ELJRE 33NG-F ELJRE 22NG-F ELJRE R22G-F3	T T T
R1 R2 R3 R4 R9 R10 R11 R12 R13 R14 R15 R16	7030005580 7030004980 7030005120 7030005120 7030005120	S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR	ERJ2GEJ 470 X (47 Ω) ERJ2GEJ 103 X (10 k Ω) ERJ2GEJ 102 X (1 k Ω) ERJ2GEJ 102 X (1 k Ω) ERJ2GEJ 560 X (56 Ω) ERJ2GEJ 101 X (100 Ω) ERJ2GEJ 102 X (1 k Ω) ERJ2GEJ 102 X (1 k Ω) ERJ2GEJ 102 X (1 k Ω) ERJ2GEJ 100 X (10 Ω) ERJ2GEJ 100 X (10 Ω) ERJ2GEJ 821 X (820 Ω) ERJ2GEJ 102 X (1 k Ω)	T T T B B B B B B T

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

[2NDDVCO BOARD]

REF NO.	ORDER NO.		DESCRIPTION	М.
IC1	1130011670	S.IC	MB15E03SLPFV1-G-BND-ER	В
Q1 Q3 Q4	1530003610 1530003590 1530003630	S.TRANSISTOR	2SC5277D2-TL	T T T
D1	1750000710	S.VARICAP	HVC350BTRF	Т
L1 L2 L3 L4	6200010850 6200005740 6200005700 6200009350	S.COIL S.COIL	LQW18AN22NG00D (LQW1608A22NG00) ELJRE 47NG-F ELJRE 22NG-F ELJRE R22G-F3	T T T
R1 R2 R3 R4 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18	7030005240 7030007280 7030005120 7030004990 7030005120 7030005120 7030005120 7030005530 7030009270	S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR	ERJ2GEJ 470 X (47 Ω) ERJ2GEJ 473 X (47 $\kappa\Omega$) ERJ2GEJ 331 X (330 Ω) ERJ2GEJ 102 X (1 $\kappa\Omega$) ERJ2GEJ 101 X (100 Ω) ERJ2GEJ 101 X (100 Ω) ERJ2GEJ 102 X (1 $\kappa\Omega$) ERJ2GEJ 100 X (10 Ω) ERJ2GEJ 100 X (10 Ω) ERJ2GEJ 821 X (820 Ω) ERJ2GEJ 102 X (1 $\kappa\Omega$) ERJ2GEJ 102 X (1 $\kappa\Omega$)	T T T T B B B B B B T T T

[2NDDVCO BOARD]

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REF NO.	ORDER NO.		DESCRIPTION	М.
R19 R21 R22	7030005120 7030005120 7030007280		ERJ2GEJ 102 X (1 kΩ) ERJ2GEJ 102 X (1 kΩ) ERJ2GEJ 331 X (330 Ω)	T T B
		S.RESISTOR S.TANTALUM S.CERAMIC	ERJ2GEJ 102 X (1 KΩ) ERJ2GEJ 331 X (330 Ω) TEESVP 1C 334M8R ECJ0EC1H560J ECJ0EC1H220J ECJ0EC1H120J ECJ0EC1H120J ECJ0EC1H00C ECJ0EC1H00C ECJ0EC1H080C ECJ0EC1H080C ECJ0EC1H080C ECJ0EC1H050B ECJ0EC1H070J ECJ0ECH070J ECJ0ECH070J ECJ0ECH070J ECJ0ECH070J ECJ0ECCH070J	
J1 J2	6910010840 6910014430	CONNECTOR CONNECTOR	IMSA-9230B-1-05Z057-T IMSA-9230B-1-06Z057-T	T T
EP1	0910058193	PCB	B 6083C	

[DOWNCONV BOARD]

REF NO.	ORDER NO.		DESCRIPTION	М.
IC2 IC3 IC4	1110005120 1110005230 1130011670	S.IC S.IC S.IC	μPC2749TB-E3 μPC2757TB-E3 MB15E03SLPFV1-G-BND-ER	T T B
Q1 Q2 Q3 Q4 Q5 Q6	1530003260 1590003380 1530003780 1590001810	S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR	2SC5006-T1 UNR9111J-(TX) 2SC5624VH-TL XP1113 (TX)	T B B T B
D1 D2 D3 D5 D6 D7	1790001620 1790001620 1720000400 1790001620 1790001620 1790001620	S.DIODE S.VARICAP S.DIODE S.DIODE S.DIODE	1SV308 (TPL3) 1SV308 (TPL3) 1SV245 (TPH3) 1SV308 (TPL3) 1SV308 (TPL3) 1SV308 (TPL3) 1SV308 (TPL3)	T B T T T
L1 L2 L3 L4 L6 L7 L8 L9 L10	6200005650 6200005650 6200004480 6200010020 6200009350 6200006770 6200005640 6200005640 6200005640 6200005640	S.COIL S.COIL S.COIL S.COIL S.COIL S.COIL S.COIL	ELJRE 8N2Z-F ELJRE 8N2Z-F MLF1608D R82K-T C2012C-12NG ELJRE R22G-F3 ELJRE 1N5Z-F ELJRE 6N8Z-F ELJRE 3N9Z-F ELJRE 2N2Z-F ELJRE 6N8Z-F	T T T T T T B

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

[DOWNCONV BOARD]

[DOW	NCONV E	JUANDI		
REF NO.	ORDER NO.		DESCRIPTION	М.
R1	7030004980	S.RESISTOR	ERJ2GEJ 101 X (100 Ω) except [EUR], [UK]	Т
	7030009160	S.RESISTOR	ERJ2GEJ 181 X (180 Ω) [EUR], [UK]	
R2	7030005000	S.RESISTOR	ERJ2GEJ 471 X (470 Ω)	Т
R3	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	В
R4	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	T
R5	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	T B
R6 R7	7030005040 7030007280	S.RESISTOR S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ) ERJ2GEJ 331 X (330 Ω)	T
R8	7030007200	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	Ť
R9	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	Т
R10	7030004970	S.RESISTOR	ERJ2GEJ 470 X (47 Ω)	Т
R11	7030005300	S.RESISTOR	ERJ2GEJ 150 X (15 Ω)	Т
R12	7030005530	S.RESISTOR	ERJ2GEJ 100 X (10 Ω)	T
R13 R14	7030005300 7030005720	S.RESISTOR S.RESISTOR	ERJ2GEJ 150 X (15 Ω) ERJ2GEJ 563 X (56 kΩ)	T B
R15	7030003720	S.RESISTOR	ERJ2GEJ 221 X (220 Ω)	В
R16	7030007270	S.RESISTOR	ERJ2GEJ 151 X (150 Ω)	В
R17	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	В
R18	7030007280	S.RESISTOR	ERJ2GEJ 331 X (330 Ω)	В
R19	7030009270	S.RESISTOR	ERJ2GEJ 821 X (820 Ω)	В
R20	7030005530	S.RESISTOR	ERJ2GEJ 100 X (10 Ω) ERJ2GEJ 273 X (27 kΩ)	В
R21 R22	7030005600 7030005040	S.RESISTOR S.RESISTOR	ERJ2GEJ 273 X (27 kΩ) ERJ2GEJ 472 X (4.7 kΩ)	T T
R23	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	Ť
R25	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	T
R26	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	Т
R27	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	Т
R28	7030005530	S.RESISTOR	ERJ2GEJ 100 X (10 Ω)	T
R29	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	B B
R30 R31	7030008300 7030005120	S.RESISTOR S.RESISTOR	ERJ2GEJ 184 X (180 kΩ) ERJ2GEJ 102 X (1 kΩ)	В
R32	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	В
R33	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	T
C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C22 C23 C26 C27 C28 C29 C30 C31 C32 C34 C32 C34 C35 C36 C37 C38 C39 C37 C38 C38 C39 C39 C39 C30 C31 C38 C39 C39 C39 C39 C39 C39 C39 C39 C39 C39	4030017600 4030017580 4030017730 4030017730 4030017340 4030017350 4030017340 4030017340 4030017460 4550007040 4030017730 4030017730 4030017730 4030017730 4030017730 4030017730 4030017730 4030017730 4030017730 403001730 403001730 403001730 403001730 403001730 403001730 403001730 403001730 403001730 403001730 403001730 403001730 403001730 403001730 4030017730 4030017730 4030017730 4030017730 4030017730 4030017730 4030017730 4030017730 4030017730 4030017730 4030017730 4030017730 4030017730 4030017730	S.CERAMIC	ECJOEC1H080C ECJOEC1H080C ECJOECH080C ECJOECH080C ECJOEB1E471K ECJOEB1E471K ECJOECH010B ECJOECH020B ECJOECH020B ECJOECH010B ECJOECH010B ECJOECH010B ECJOECH020B ECJOECH020J ECJOEB1E470K ECJOEB1E471K ECJOEB1E471K ECJOEB1E471K ECJOEB1E471K ECJOEB1E471K ECJOEB1E471K ECJOEB1E471K ECJOEB1E471K ECJOEB1E471K ECJOEB1E471C ECJOECH010B ECJOECH010B ECJOECH010B ECJOECH010B ECJOECH100C ECJOECH100B ECJOECH100B ECJOECH100B ECJOECH100B ECJOECH100B ECJOECH1120J ECJOEB1E471K ECJOEB1E471K ECJOEB1E471K ECJOEB1E471K ECJOECH010B ECJOECH010B ECJOECH020B ECJOECH1120J ECJOECH020B ECJOECH010B ECJOECH010B ECJOECH010B ECJOECH010B ECJOECH010B ECJOECHH120J ECJOECHH120J	ТТТТТТТТТТТВВВВВТВТВВТТТТТТТТТТТТТТТТТТ
C44 C45	4030017730 4030017360	S.CERAMIC S.CERAMIC	ECJ0EB1E471K ECJ0EC1H030B	ВВ
C46 C47	4030017360 4030016790	S.CERAMIC S.CERAMIC	ECJ0EC1H030B ECJ0EB1C103K	B B
C47	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C49	4030016790	S.CERAMIC	ECJ0EB1C103K	В

[DOWNCONV BOARD]

REF NO.	ORDER NO.		DESCRIPTION	М.
C50	4030017730		ECJ0EB1E471K	В
C51	4030017730	S.CERAMIC	ECJ0EB1E471K	В
C52	4030017730	S.CERAMIC	ECJ0EB1E471K	В
C53	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C54	4030017420	S.CERAMIC	ECJ0EC1H470J	В
C55	4030017420	S.CERAMIC	ECJ0EC1H470J	В
C56	4030017420	S.CERAMIC	ECJ0EC1H470J	Т
C58	4030016930	S.CERAMIC	ECJ0EB1A104K	Т
J1 J2	6910015510 6910015530		IMSA-9230B-1-08Z064-T IMSA-9230B-1-06Z064-T	T T
EP1	0910058152	PCB	B 6079B	

[REC UNIT]

REF NO.	ORDER NO.		DESCRIPTION	М.
IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10	1130011980 1140012090 1130011680 1130012250 1130012260 1130011970 1190001950 1130011800 1130011800 1180002370	S.IC S.IC S.IC S.IC S.IC S.IC S.IC S.IC	BD5228G-TR M30622M6P-131GP (RX-2699A ALL) FT245BM SN74AHC1G02DCKR SN74AHC1G32DCKR K9F5608UOC-YCBO <nxt> ML2302TB SN74AHC1G66HDBVR SN74AHC1G66HDBVR R1111N321B-TR</nxt>	T B T B B T T T T
Q1 Q2	1590003300 1590003510	S.TRANSISTOR S.TRANSISTOR		ВВ
X1 X2	6050010940 6050011240	S.XTAL S.XTAL	CR-672 (6.000 MHz) CR-708 (16.384 MHz)	T T
R1 R6 R7 R8 R9 R10 R11 R12 R13 R15 R16 R17 R18 R19 R20 R21 R22	7030005050 7030009530 7030009530 7030005240 7030005240 7030005000 7030005240 7030005030 7030005240 7030005170 7030005240 7030005240 7030005240 7030005240 703000590 703000590	S.RESISTOR S.RESISTOR	ERJ2GEJ 103 X (10 kΩ) ERJ2GEJ 270 X (27 Ω) ERJ2GEJ 270 X (27 Ω) ERJ2GEJ 473 X (47 kΩ) ERJ2GEJ 473 X (47 kΩ) ERJ2GEJ 473 X (47 kΩ) ERJ2GEJ 471 X (470 Ω) ERJ2GEJ 331 X (330 Ω) ERJ2GEJ 351 X (47 kΩ) ERJ2GEJ 473 X (47 kΩ) ERJ2GEJ 474 X (470 kΩ) ERJ2GEJ 474 X (470 kΩ) ERJ2GEJ 154 X (150 kΩ) ERJ2GEJ 334 X (330 kΩ) ERJ2GEJ 373 X (47 kΩ) ERJ2GEJ 373 X (47 kΩ) ERJ2GEJ 104 X (100 kΩ) ERJ2GEJ 101 X (100 kΩ) ERJ2GEJ 104 X (100 kΩ) ERJ2GEJ 104 X (100 kΩ)	T T T T B T B T T T T T B T T
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17	4030016790 4550006050 4030016790 4030016790 4030017660 4030017660 4030017330 4030017330 4030016790 4030016790 4030016790 4030016790 4030016790 4030016790 4030016790 4030016790 4030016790 4030016790	S.CERAMIC S.TANTALUM S.CERAMIC	ECJ0EB1C103K TEESVA 0J 106M8L ECJ0EB1C103K ECJ0EB1C103K ECJ0EB1C103K ECJ0EC1H330J ECJ0EC1H330J ECJ0EF1C104Z ECJ0EB1A333K ECJ0EF1C104Z ECJ0EB1C103K	T T T T B B T T B B B B B B T T

[REC UNIT]

	ONT			
REF NO.	ORDER NO.		DESCRIPTION	М.
C18		S.CERAMIC	ECJ0EB1C103K	Т
C19		S.CERAMIC	ECJ0EB1C103K	T
C20		S.CERAMIC	ECJ0EC1H220J	T
C21	4030017400	S.CERAMIC	ECJ0EC1H220J	T
C22	4030016790	S.CERAMIC	ECJ0EB1C103K	T
C23		S.CERAMIC	C1608 JB 1A 105K-T	T
C24		S.CERAMIC	C1608 JB 1A 105K-T	T
C25	4030016790		ECJ0EB1C103K	T
C26	4030016790		ECJ0EB1C103K	T
C27	4550007130	S.TANTALUM	ECST0GX107R	В
C28	4030016790	S.CERAMIC	ECJ0EB1C103K	В
J2 J6 J7	6510024170 6910006590 6910006520	S.CONNECTOR CONNECTOR CONNECTOR	CSS5005-0401GSZ IMSA-9230B-1-04Z030-T IMSA-9230B-1-06Z030-T	T T T
S1	2230001070	S SWITCH	JPM1990-2711R	T
S2	2230001070	S.SWITCH	JPM1990-2711R	ΙĖ
S3	2230001070	S.SWITCH	JPM1990-2711R	Ϊ́Τ
EP1	6910012350	S.BEAD	MMZ1608Y 102BT	Т
EP2	0910058204	PCB	B 6084D	
EP3	6910012350	S.BEAD	MMZ1608Y 102BT	T
EP4	6910012350	S.BEAD	MMZ1608Y 102BT	T

[LOGIC UNIT]

LEGG	0.11.1			_
REF NO.	ORDER NO.		DESCRIPTION	М.
IC1	1130011140	S.IC	CAT24WC256K1.8	в
IC2	1130011980	S.IC	BD5228G-TR	в
IC3	1140012110	S.IC	M30620MCP-130GP (RX-2699C USA)	
			[USA]	В
	1140012100	S.IC	M30620MCP-129GP (RX-2699B J/E)	
			except [USA]	В
IC4	1130007110	S.IC	TC7W04FU (TE12L)	В
IC5	1190000710	S.IC	TA31056F (EL)	В
IC6	1130011870	S.IC	SN74AHC1GU04DBVR	В
IC7	1130011860	S.IC	SM6451BT-G-E2	В
IC8	1180002370	S.REG	R1111N321B-TR	В
IC9	1180002370	S.REG	R1111N321B-TR	В
IC11	1130007110	S.IC	TC7W04FU (TE12L)	В
IC12	1110006380	S.IC	LM2904PWR	В
IC13	1110006380	S.IC	LM2904PWR	В
IC14	1130006550	S.IC S.IC	TC7S08FU (TE85R)	B B
IC15	1130006550	S.IC	TC7S08FU (TE85R)	В
Q1	1530003630	S.TRANSISTOR	2SC4617 TLS	┰┃
Q3	1510000770		2SA1586-GR (TE85R)	в
Q4	1530003630	S.TRANSISTOR		ΤI
Q5	1530003630	S.TRANSISTOR		в
Q6	1530002690		2SC4116-GR (TE85R)	ВΙ
Q7	1590001170	S.TRANSISTOR		в
Q8	1510000670	S.TRANSISTOR	2SA1588-GR (TE85R)	в
Q9	1520000460	S.TRANSISTOR	2SB1132 T100 R	В
Q10	1510000580	S.TRANSISTOR	2SA1362-GR (TE85R)	В
Q11	1590003230	S.TRANSISTOR	UNR9113J-(TX)	В
Q12	1530003630	S.TRANSISTOR	2SC4617 TLS	В
Q13	1590001190	S.TRANSISTOR	XP6501-(TX) .AB	В
Q14	1510000670	S.TRANSISTOR		В
Q15	1510000580	S.TRANSISTOR	2SA1362-GR (TE85R)	В
Q16	1530003630	S.TRANSISTOR	2SC4617 TLS	В
Q17	1510000670		2SA1588-GR (TE85R)	В
Q19	1590001390	S.FET	2SJ144-Y (TE85R)	В
Q20	1590003250	S.TRANSISTOR		В
Q21	1590003250	S.TRANSISTOR		В
Q22	1530003630	S.TRANSISTOR		В
Q23	1530003630	S.TRANSISTOR		В
Q24	1590001190		XP6501-(TX) .AB	В
Q25	1590001190		XP6501-(TX) .AB	В
Q26 Q27	1590001390 1590001390	S.FET S.FET	2SJ144-Y (TE85R) 2SJ144-Y (TE85R)	B B
Q21	1590001390	0.FE1	200144-1 (1E00H)	

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

[LOGIC UNIT]

ORDER REF DESCRIPTION M. NO. NO. S.TRANSISTOR 2SC4617 TLS Q28 В S.TRANSISTOR UNR9213J-(TX) 1590003290 Q29 В S.TRANSISTOR 2SB1201-S-TL Q30 1520000650 Т Q31 1590002950 S.FET HAT1023R-EL Т S.TRANSISTOR 2SC4617 TLS Т Q32 1530003630 1520000460 S.TRANSISTOR 2SB1132 T100 R Q33 Т S.TRANSISTOR UNR9215J-(TX) Т Q34 1590003390 Q35 1590003290 S.TRANSISTOR UNR9213J-(TX) S.TRANSISTOR 2SC4617 TLS Q36 1530003630 Т S.TRANSISTOR 2SA1588-GR (TE85R) Q37 1510000670 В S.TRANSISTOR XP4601 (TX) Q38 1590001650 D2 1790001240 S.DIODE MA2S728-(TX) [SEA], [EXP-01], [EXP-02], [CAN] only В D3 1750000940 S.DIODE ISS400 TE61 1790001240 S.DIODE MA2S728-(TX) D5 [USA] only В D6 1750000940 S.DIODE ISS400 TE61 1790001240 MA2S728-(TX) [UK], [USA] only D8 S.DIODE В D9 1750000940 S.DIODE ISS400 TE61 MA2S728-(TX) D11 1790001240 S.DIODE [EUR] only В D12 1750000940 S.DIODE ISS400 TE61 1750000940 S.DIODE ISS400 TE61 D13 В D14 1750000770 S.VARICAP HVC376BTRF В D18 1720000600 S.VARICAP HN2V02H-B (TE12R) В D20 1750000940 S.DIODE ISS400 TE61 В 1750000940 S.DIODE ISS400 TE61 В D21 D22 1790001560 S.DIODE 1SS372 (TE85R) В 1790001560 S.DIODE 1SS372 (TE85R) В D23 D24 1790001560 S.DIODE 1SS372 (TE85R) В 1790001560 S.DIODE 1SS372 (TE85R) D25 В D26 1750000940 S.DIODE ISS400 TE61 Т D27 1750000940 S.DIODE ISS400 TE61 Т D28 1790001250 S.DIODE MA2S111-(TX) D29 1790000670 S.DIODE SB07-03C-TB Т D30 1750000940 S.DIODE ISS400 TE61 Т D31 1750000940 S.DIODE ISS400 TE61 Т D32 1790001250 S.DIODE MA2S111-(TX) В D33 1730002510 S.ZENER MA8027-H (TX) В D34 1790000670 S.DIODE SB07-03C-TB D35 1790001240 S.DIODE MA2S728-(TX) Т D36 1790000860 S.DIODE MA133 (TX) Т X1 6050011310 S.XTAL CR-717 (9.8304 MHz) В X2 6060000820 S.CERAMIC CSBFB453KJ58-R1 В L1 6200003640 S.COIL MLF1608E 100K-T В R1 7410001110 S.ARRAY EXB28V332JX В R2 7410001220 S.ARRAY EXB28V103JX В R3 7410001220 S.ARRAY EXB28V103JX В R4 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) В R5 7410001220 S.ARRAY EXB28V103JX В R6 7410001220 SARRAY FXB28V103.IX В R7 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) В R8 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) В R9 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) В R10 7030005050 S RESISTOR ERJ2GEJ 103 X (10 kΩ) В R11 7030005120 S RESISTOR ERJ2GEJ 102 X (1 kΩ) В R12 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) Т R13 7030005310 S.RESISTOR ERJ2GEJ 124 X (120 kΩ) В R14 7030005570 S RESISTOR ERJ2GEJ 820 X (82 Ω) Т R15 7030005090 S RESISTOR ERJ2GEJ 104 X (100 kΩ) В R17 7410001220 SARRAY FXB28V103.IX В R18 7410001220 S.ARRAY EXB28V103JX В S.RESISTOR R19 7030005570 ERJ2GEJ 820 X (82 Ω) Т R20 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) В R21 7410001110 S ARRAY FXB28V332.IX В S RESISTOR R22 7030010040 FR.I2GF-JPW В S.RESISTOR R23 7030005570 ERJ2GEJ 820 X (82 Ω) Т R24 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) В R25 7410001110 SARRAY FXB28V332.IX В S RESISTOR R26 7030005120 FRJ2GFJ 102 X (1 kO) В ERJ2GEJ 100 X (10 Ω) R27 7030005530 S RESISTOR В 7030005160 ERJ2GEJ 105 X (1 MΩ) R28 S RESISTOR В R29 S RESISTOR 7030005570 ERJ2GEJ 820 X (82 Ω) Т R30 ERJ2GEJ 102 X (1 kΩ) 7030005120 S RESISTOR В 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) R31 В

[LOGIC UNIT]

REF ORDER ORDER	[LOG	C UNIT]			
R334 7030005000 S.RESISTOR ERL/GEL 104 X (100 k/α) B R34 7030005000 S.RESISTOR ERL/GEL 103 X (10 k/α) B R38 7030005004 S.RESISTOR ERL/GEL 103 X (10 k/α) B R38 7030005050 S.RESISTOR ERL/GEL 103 X (10 k/α) B R38 7030005050 S.RESISTOR ERL/GEL 103 X (10 k/α) B R38 7030005050 S.RESISTOR ERL/GEL 103 X (10 k/α) B R34 7030005050 S.RESISTOR ERL/GEL 103 X (10 k/α) B R38 7030005050 S.RESISTOR ERL/GEL 103 X (10 k/α) B R38 7030007340 S.RESISTOR ERL/GEL 103 X (10 k/α) B R38 7030007340 S.RESISTOR ERL/GEL 103 X (10 k/α) B R38 7030005050 S.RESISTOR ERL/GEL 103 X (10 k/α) B R34 7030007340 S.RESISTOR ERL/GEL 103 X (10 k/α) B R34 7030007320 S.RESISTOR ERL/GEL 103 X (10 k/α) B R34 70300050570 S.RESISTOR ERL/GEL 123 X (10 k/α) B R34 70300050570 S.RESISTOR ERL/GEL 125 X (2.2 k/α) B R34 70300050570 S.RESISTOR ERL/GEL 125 X (2.2 k/α) B R34 7030005000 S.RESISTOR ERL/GEL 126 X (10 k/α) B R34 7030005000 S.RESISTOR ERL/GEL 120 X (10 k/α) B R34 703000500 S.RESISTOR ERL/GEL 120 X (10 k/α) B R34 703000500 S.RESISTOR ERL/GEL 120 X (10 k/α) B R34 703000500 S.RESISTOR ERL/GEL 120 X (10 k/α) B R34 703000500 S.RESISTOR ERL/GEL 120 X (10 k/α) B R34 703000500 S.RESISTOR ERL/GEL 154 X (150 k/α) B R34 703000500 S.RESISTOR ERL/GEL 154 X (150 k/α) B R34 703000500 S.RESISTOR ERL/GEL 154 X (150 k/α) B R34 703000500 S.RESISTOR ERL/GEL 154 X (150 k/α) B R34 703000510 S.RESISTOR ERL/GEL 104 X (100 k/α) B R34 703000500 S.RESISTOR ERL/GEL 104 X (100 k/α) B R34 703000500 S.RESISTOR ERL/GEL 104 X (100 k/α) B R34 703000500 S.RESISTOR ERL/GEL 104 X (100 k/α) B R34 703000500 S.RESISTOR ERL/GEL 104 X (100 k/α) B R34 703000500 S.RESISTOR ERL/GEL 104 X (100 k/α) B R34 703000500 S.RESISTOR ERL/GEL 104 X (100 k/α) B R34 703000500 S.RESISTO				DESCRIPTION	М.
R35					
R356					
17930005040 S.RESISTOR ERL/2GEL 172 X (1.7 kg) B T				, ,	
R389 7030005505 S.RESISTOR ERL/GGEL 103 X (10 kΩ) B R40 7030005606 S.RESISTOR ERL/GGEL 103 X (10 kΩ) B R41 7030005606 S.RESISTOR ERL/GGEL 103 X (10 kΩ) B R41 7030005503 S.RESISTOR ERL/GGEL 103 X (10 kΩ) B R42 704000130 S.RESISTOR ERL/GGEL 103 X (10 kΩ) B R44 7030005503 S.RESISTOR ERL/GGEL 103 X (10 kΩ) B R44 7030005503 S.RESISTOR ERL/GGEL 103 X (10 kΩ) B R44 7030005503 S.RESISTOR ERL/GGEL 103 X (10 kΩ) B R44 7030005507 S.RESISTOR ERL/GGEL 103 X (10 kΩ) B R44 7030005507 S.RESISTOR ERL/GGEL 102 X (10 kΩ) B R44 7030005009 S.RESISTOR ERL/GGEL 102 X (10 kΩ) B R44 7030005009 S.RESISTOR ERL/GGEL 102 X (10 kΩ) B R44 7030005009 S.RESISTOR ERL/GGEL 102 X (10 kΩ) B R44 7030005009 S.RESISTOR ERL/GGEL 102 X (10 kΩ) B R44 7030005009 S.RESISTOR ERL/GGEL 102 X (10 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 102 X (10 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 102 X (10 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 104 X (100 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 154 X (150 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 154 X (150 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 154 X (150 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 104 X (100 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 104 X (100 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 104 X (100 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 104 X (100 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 104 X (100 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 104 X (100 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 100 X (10 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 100 X (10 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 100 X (10 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 100 X (10 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 100 X (10 kΩ) B R44 7030005000 S.RESISTOR ERL/GGEL 100 X (10 kΩ) B R44 7030005000 S					
M41				, ,	
R41 7430008010 S.RESISTOR ERJZGEL 123 X (12 kΩ) B R42 741001130 S.RESISTOR ERJZGEL 153 X (15 kΩ) B R45 7030007320 S.RESISTOR ERJZGEL 153 X (15 kΩ) B R47 7030007320 S.RESISTOR ERJZGEL 153 X (15 kΩ) B R49 7030005205 S.RESISTOR ERJZGEL 120 X (22 MΩ) T R52 7030005070 S.RESISTOR ERJZGEL 104 X (100 kΩ) B R53 7030005070 S.RESISTOR ERJZGEL 103 X (10 kΩ) B R54 7030005070 S.RESISTOR ERJZGEL 103 X (10 kΩ) B R55 7030005000 S.RESISTOR ERJZGEL 172 X (4.7 kΩ) B R56 7030006100 S.RESISTOR ERJZGEL 172 X (150 kΩ) B R57 703000100 S.RESISTOR ERJZGEL 154 X (150 kΩ) B R58 7030006100 S.RESISTOR ERJZGEL 172 X (170 kΩ) B R61 7030006100 S.RESISTOR ERJZGEL 174 X (150 kΩ) B R62				, ,	
R42					
R45 7030007540 S.RESISTOR ERJ2GEL 193 X (15 kΩ) B R45 7030005590 S.RESISTOR ERJ2GEL 100 X (10 Ω) B R49 703000570 S.RESISTOR ERJ2GEL 225 X (2.2 MΩ) B R51 741001130 S.RESISTOR ERJ2GEL 220 X (82 Ω) T R52 7030005090 S.RESISTOR ERJ2GEL 104 X (10 kΩ) B R54 7030005005 S.RESISTOR ERJ2GEL 200 X (82 Ω) T R55 703000500 S.RESISTOR ERJ2GEL 200 X (82 Ω) T R56 703000500 S.RESISTOR ERJ2GEL 200 X (82 Ω) T R56 703000510 S.RESISTOR ERJ2GEL 154 X (150 kΩ) B R57 703000510 S.RESISTOR ERJ2GEL 154 X (150 kΩ) B R68 703000510 S.RESISTOR ERJ2GEL 154 X (150 kΩ) B R61 703000510 S.RESISTOR ERJ2GEL 154 X (150 kΩ) B R62 703000500 S.RESISTOR ERJ2GEL 154 X (150 kΩ) B R63 7300005				, ,	
R45 7030005530 S.RESISTOR ERJ2GEL 225 X (2.2 MΩ) B R49 703000570 S.RESISTOR ERJ2GEL 225 X (2.2 MΩ) T R51 7410001130 S.ARRAY ERJ2GEL 104 X (100 kΩ) B R52 703000570 S.RESISTOR ERJ2GEL 104 X (100 kΩ) B R53 703000570 S.RESISTOR ERJ2GEL 820 X (82 Ω) T R55 703000570 S.RESISTOR ERJ2GEL 820 X (82 Ω) T R56 703000570 S.RESISTOR ERJ2GEL 72 X (4.7 kΩ) B R57 703000500 S.RESISTOR ERJ2GEL 72 X (4.7 kΩ) B R58 7030005100 S.RESISTOR ERJ2GEL 154 X (150 kΩ) B R60 7030005100 S.RESISTOR ERJ2GEL 154 X (150 kΩ) B R61 7030005100 S.RESISTOR ERJ2GEL 164 X (150 kΩ) B R62 7030005100 S.RESISTOR ERJ2GEL 164 X (150 kΩ) B R63 7410011220 S.ARRAY ERJ2GEL 164 X (150 kΩ) B R64 7030					
R49 7030005570 S.RESISTOR ERJ2GEL JROX (28 CΩ) T R51 7410001130 S.ARRAY ERJ2GEJ 104 X (100 kΩ) B R52 7030005090 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R53 703000507 S.RESISTOR ERJ2GEL 103 X (10 kΩ) B R55 7030005040 S.RESISTOR ERJ2GEL J72X (4.7 kΩ) B R57 703001040 S.RESISTOR ERJ2GEL J74X (150 kΩ) B R58 7030005100 S.RESISTOR ERJ2GEL J54 X (150 kΩ) B R69 7030005100 S.RESISTOR ERJ2GEL J54 X (150 kΩ) B R61 7030005100 S.RESISTOR ERJ2GEL J54 X (150 kΩ) B R62 703000500 S.RESISTOR ERJ2GEL J164 X (150 kΩ) B R63 741000120 S.ARRAY ERJ2GEL J164 X (150 kΩ) B R64 7030005100 S.RESISTOR ERJ2GEL J102 X (1 kΩ) B R67 7030005000 S.RESISTOR ERJ2GEL J102 X (1 kΩ) B R67 70					
Factor	R47	7030007320	S.RESISTOR	ERJ2GEJ 225 X (2.2 MΩ)	
R52				, ,	
R53					
R54 70300055050 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R55 7030005401 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R56 703001040 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R57 703001040 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) B R59 7030005100 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) B R61 7030005100 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) B R61 7030005100 S.RESISTOR ERJ2GEJ 164 X (150 kΩ) B R62 7030005100 S.RESISTOR ERJ2GEJ 104 X (160 kΩ) B R63 7410001220 S.ARRAY ERJ2GEJ 102 X (1 kΩ) B R64 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R67 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R68 7030005050 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R69 703001040 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R71 70					
R56 7030005040 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R57 7030005100 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) B R59 7030005100 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) B R60 7030005100 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) B R61 7030005100 S.RESISTOR ERJ2GEJ 164 X (150 kΩ) B R62 7030005000 S.RESISTOR ERJ2GEJ 164 X (150 kΩ) B R63 7410001220 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R66 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R67 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R68 7030005050 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R69 703001040 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R71 703001040 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R72 703001040 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R73 70				, ,	
R57 7030010400 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) B R58 7030005100 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) B R60 7030005100 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) B R61 7030005100 S.RESISTOR ERJ2GEJ 164 X (150 kΩ) B R62 7030005100 S.RESISTOR ERJ2GEJ 164 X (150 kΩ) B R63 741001220 S.ARRAY ERJ2GEJ 164 X (150 kΩ) B R64 7030005100 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R66 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R67 703001040 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R69 703001040 S.RESISTOR ERJ2GEJ PW B R71 703001040 S.RESISTOR ERJ2GE-JPW B R72 703001040 S.RESISTOR ERJ2GEJ-JPW B R73 703001040 S.RESISTOR ERJ2GEJ-JPW B R74 7030005240 S.RESISTOR					
R5B 7030005100 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) B R60 7030005100 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) B R61 7030005100 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) B R62 7030005100 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) B R63 741001220 S.ARRAY ERJ2GEJ 104 X (100 kΩ) B R64 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R67 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R68 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R69 703001040 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R70 703001040 S.RESISTOR ERJ2GE-JPW B R71 703001040 S.RESISTOR ERJ2GE-JPW B R72 703001040 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R74 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R73 703006240 S				,	
R59					
R60 7030005100 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) B R61 7030005090 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) B R62 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) B R64 7030005102 S.RESISTOR ERJ2GEJ 471 X (470 Ω) B R66 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R67 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R68 703000500 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R69 703000500 S.RESISTOR ERJ2GEJ HW B R70 7030010040 S.RESISTOR ERJ2GEJ-PW B R71 703010040 S.RESISTOR ERJ2GEJ-PW B R72 703001040 S.RESISTOR ERJ2GEJ-PW B R74 7030005240 S.RESISTOR ERJ2GEJ H73 X (47 kΩ) B R76 7030005240 S.RESISTOR ERJ2GEJ 102 X (10 kΩ) B R84 7030005240 S.RESISTOR				, ,	
R61 7030005100 S.RESISTOR ERJ2GEJ 104 X (150 kΩ) B R62 7030005000 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) B R63 7410001220 S.ARRAY EXP289V103JX B R64 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R66 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R69 7030010040 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R70 703010040 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R71 7030010040 S.RESISTOR ERJ2GE-JPW B R71 7030010040 S.RESISTOR ERJ2GE-JPW B R72 703010040 S.RESISTOR ERJ2GE-JPW B R73 703001040 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R74 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R74 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R83 7030005400 S.RESISTOR					
R64 7410001220 S.ARRAY EXB28V103JX B R64 7030005100 S.RESISTOR ERJ2GEJ 471 X (470 Ω) B R66 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R67 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R68 7030005050 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R69 7030010040 S.RESISTOR ERJ2GEJ-JPW B R71 703010040 S.RESISTOR ERJ2GE-JPW B R72 7030010040 S.RESISTOR ERJ2GE-JPW B R73 7030010040 S.RESISTOR ERJ2GE-JPW B R74 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R77 7410001130 S.ARRAY EXB28V102JX B R82 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R83 70300050050 S.RESISTOR ERJ2GEJ 3473 X (47 kΩ) B R84 703000500 S.RESISTOR ERJ2GEJ 473 X (R61	7030005100	S.RESISTOR	ERJ2GEJ 154 X (150 kΩ)	В
R64 7030005000 S.RESISTOR ERJ2GEJ 471 X (470 Ω) B R66 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R67 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R69 7030010040 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R70 7030010040 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R71 7030110040 S.RESISTOR ERJ2GE-JPW B R72 703010040 S.RESISTOR ERJ2GE-JPW B R74 7030010040 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R74 7030010240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R76 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R877 7410001130 S.ARRAY EXB28V102JX B R87 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R83 703000540 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R84 7030005500 S.RESISTO					
R66 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R67 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R68 7030005050 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R69 7030005050 S.RESISTOR ERJ2GEJPW B R70 7030010040 S.RESISTOR ERJ2GEJPW B R71 7030010040 S.RESISTOR ERJ2GEJPW B R72 7030010040 S.RESISTOR ERJ2GEJPW B R73 703001040 S.RESISTOR ERJ2GEJPW B R74 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R76 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R83 7030005240 S.RESISTOR ERJ2GEJ 102 X (10 kΩ) B R84 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R83 703000540 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R86 703000500 S.RESISTOR ERJ2GEJ 1					
R67 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) B R68 7030005120 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R69 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R70 7030010040 S.RESISTOR ERJ2GE-JPW B R72 7030010040 S.RESISTOR ERJ2GE-JPW B R73 7030010040 S.RESISTOR ERJ2GE-JPW B R74 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R76 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R77 7410001130 S.ARRAY ESB28V102JX B R82 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R83 7030005240 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R84 7030005300 S.RESISTOR ERJ2GEJ 101 X (100 Ω) B R85 7030005000 S.RESISTOR ERJ2GEJ 303 X (39 kΩ) B R87 7030005100 S.RESISTOR					
R69 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R70 7030010040 S.RESISTOR ERJ2GE-JPW B R71 7030010040 S.RESISTOR ERJ2GE-JPW B R72 7030010040 S.RESISTOR ERJ2GE-JPW B R73 7030010040 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R74 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R76 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R82 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R84 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R84 7030005050 S.RESISTOR ERJ2GEJ 101 X (100 Ω) B R85 7030007350 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) B R86 7030005040 S.RESISTOR ERJ2GEJ 472 X (47 kΩ) B R88 7030005100 S.RESISTOR ERJ2GEJ 472 X (47 kΩ) B R93 7030005160 S.R					
R70				ERJ2GEJ 102 X (1 kΩ)	В
R71				, ,	
R72					
R73 7030010040 S.RESISTOR ERJ2GE-JPW B R76 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R76 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R77 7410001130 S.ARRAY ERB28V102JX B R83 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R84 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R85 7030004980 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) B R86 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) B R87 7030005040 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) B R88 7030005040 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R90 7030005040 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R91 7030005050 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R92 7030005160 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R93 7030005160					
R74					
R77					В
R82 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R83 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R84 7030005090 S.RESISTOR ERJ2GEJ 101 X (100 kΩ) B R85 7030005090 S.RESISTOR ERJ2GEJ 101 X (100 kΩ) B R86 7030005090 S.RESISTOR ERJ2GEJ 393 X (39 kΩ) B R87 7030005040 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R89 7030005040 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R90 7030005040 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R91 7030005160 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R93 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R94 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R95 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R96 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R99 <				, ,	
R83 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) B R84 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R85 7030004980 S.RESISTOR ERJ2GEJ 101 X (100 Ω) B R86 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) B R87 7030005040 S.RESISTOR ERJ2GEJ 393 X (39 kΩ) B R88 7030005170 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R90 7030005040 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R91 7030005040 S.RESISTOR ERJ2GEJ 562 X (5.6 kΩ) B R93 7030005240 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R94 7030005050 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R95 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R96 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R97 7030005160 S.RESISTOR ERJ2GEJ 333 X (33 kΩ) B R99 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
R84 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R85 7030004980 S.RESISTOR ERJ2GEJ 101 X (100 Ω) B R86 7030005090 S.RESISTOR ERJ2GEJ 101 X (100 Ω) B R87 7030007350 S.RESISTOR ERJ2GEJ 393 X (39 kΩ) B R88 7030005040 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R90 7030005040 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R91 7030005040 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R91 7030005040 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R93 7030005060 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R94 7030005160 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R95 7030005160 S.RESISTOR ERJ2GEJ 103 X (1 MΩ) B R97 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R98 7030005170 S.RESISTOR ERJ2GEJ 374 X (470 kΩ) B R101				, ,	
R85 7030004980 S.RESISTOR ERJ2GEJ 101 X (100 Ω) B R86 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 κΩ) B R87 7030007350 S.RESISTOR ERJ2GEJ 393 X (39 κΩ) B R88 7030005170 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R89 7030005170 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R90 7030005040 S.RESISTOR ERJ2GEJ 472 X (4.7 kΩ) B R91 7030005160 S.RESISTOR ERJ2GEJ 562 X (5.6 kΩ) B R93 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R94 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R95 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R97 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R98 7030005160 S.RESISTOR ERJ2GEJ 333 X (33 kΩ) B R99 7030005160 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B R101					
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R114 7030007320 S.RESISTOR ERJ2GEJ 225 X (2.2 MΩ) B R115 7030008010 S.RESISTOR ERJ2GEJ 123 X (12 kΩ) B R116 7030008010 S.RESISTOR ERJ2GEJ 123 X (12 kΩ) B R117 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R118 7030005530 S.RESISTOR ERJ2GEJ 100 X (10 Ω) B R119 7030008010 S.RESISTOR ERJ2GEJ 123 X (12 kΩ) B R120 7030009270 S.RESISTOR ERJ2GEJ 821 X (820 Ω) B R121 7030005530 S.RESISTOR ERJ2GEJ 100 X (10 Ω) B R122 7030005500 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R123 703000570 S.RESISTOR ERJ2GEJ 821 X (820 Ω) B R124 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B R125 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B					
R116 7030008010 S.RESISTOR ERJ2GEJ 123 X (12 kΩ) B R117 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R118 7030005530 S.RESISTOR ERJ2GEJ 100 X (10 Ω) B R119 7030008010 S.RESISTOR ERJ2GEJ 123 X (12 kΩ) B R120 7030009270 S.RESISTOR ERJ2GEJ 821 X (820 Ω) B R121 7030005530 S.RESISTOR ERJ2GEJ 100 X (10 Ω) B R122 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 k Ω) B R123 7030009270 S.RESISTOR ERJ2GEJ 821 X (820 Ω) B R124 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 k Ω) B R125 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 k Ω) B				ERJ2GEJ 225 X (2.2 MΩ)	
R117 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) B R118 7030005530 S.RESISTOR ERJ2GEJ 100 X (10 Ω) B R119 7030008010 S.RESISTOR ERJ2GEJ 123 X (12 kΩ) B R120 7030009270 S.RESISTOR ERJ2GEJ 821 X (820 Ω) B R121 7030005530 S.RESISTOR ERJ2GEJ 100 X (10 Ω) B R122 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R123 7030009270 S.RESISTOR ERJ2GEJ 821 X (820 Ω) B R124 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B R124 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B R125 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B					
R118 7030005530 S.RESISTOR ERJ2GEJ 100 X (10 Ω) B R119 7030008010 S.RESISTOR ERJ2GEJ 123 X (12 k Ω) B R120 7030009270 S.RESISTOR ERJ2GEJ 821 X (820 Ω) B R121 7030005530 S.RESISTOR ERJ2GEJ 100 X (10 Ω) B R122 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 k Ω) B R123 7030009270 S.RESISTOR ERJ2GEJ 821 X (820 Ω) B R124 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 k Ω) B R125 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 k Ω) B					
R119 7030008010 S.RESISTOR ERJ2GEJ 123 X (12 kΩ) B R120 7030009270 S.RESISTOR ERJ2GEJ 821 X (820 Ω) B R121 7030005530 S.RESISTOR ERJ2GEJ 100 X (10 Ω) B R122 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R123 7030009270 S.RESISTOR ERJ2GEJ 821 X (820 Ω) B R124 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B R125 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B				, ,	
R120 7030009270 S.RESISTOR ERJ2GEJ 821 X (820 Ω) B R121 7030005530 S.RESISTOR ERJ2GEJ 100 X (10 Ω) B R122 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 $k\Omega$) B R123 7030009270 S.RESISTOR ERJ2GEJ 821 X (820 Ω) B R124 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 $k\Omega$) B R125 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 $k\Omega$) B					
R122 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) B R123 7030009270 S.RESISTOR ERJ2GEJ 821 X (820 Ω) B R124 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B R125 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B			S.RESISTOR	ERJ2GEJ 821 X (820 Ω)	В
R123 7030009270 S.RESISTOR ERJ2GEJ 821 X (820 Ω) B R124 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B R125 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B					
R124 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B R125 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B				, ,	
R125 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) B					
				, ,	
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				<u> </u>	

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

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REF **ORDER DESCRIPTION** M. NO. NO. R127 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) В R128 7030008300 S RESISTOR ERJ2GEJ 184 X (180 kΩ) В ERJ2GEJ 184 X (180 kΩ) R129 7030008300 S.RESISTOR В R130 7030008300 S.RESISTOR ERJ2GEJ 184 X (180 kΩ) В R131 7030009150 S.RESISTOR ERJ2GEJ 824 X (820 kΩ) В 7030008300 R132 S RESISTOR ERJ2GEJ 184 X (180 kΩ) В ERJ2GEJ 824 X (820 kΩ) R133 7030009150 S.RESISTOR В R134 7030005080 S.RESISTOR ERJ2GEJ 823 X (82 kΩ) В R135 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) В ERJ2GEJ 823 X (82 kΩ) 7030005080 В R136 S.RESISTOR R137 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) В R139 7030005080 S.RESISTOR ERJ2GEJ 823 X (82 kΩ) В ERJ2GEJ 823 X (82 kΩ) R140 7030005080 S.RESISTOR В 7030007340 ERJ2GEJ 153 X (15 kΩ) R141 S.RESISTOR В ERJ2GEJ 153 X (15 kΩ) R142 7030007340 S.RESISTOR В ERJ2GEJ 474 X (470 kΩ) R143 7030005170 S.RESISTOR В ERJ2GEJ 474 X (470 kΩ) R144 7030005170 S.RESISTOR В R145 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) В ERJ2GEJ 104 X (100 kΩ) R146 7030005090 S.RESISTOR В R147 7030007320 S.RESISTOR ERJ2GEJ 225 X (2.2 MΩ) В ERJ2GEJ 154 X (150 kΩ) R148 7030005100 S.RESISTOR В 7030007350 S.RESISTOR ERJ2GEJ 393 X (39 kΩ) В R149 R150 7030005100 S.RESISTOR ERJ2GEJ 154 X (150 kΩ) В ERJ2GEJ 393 X (39 kΩ) R151 7030007350 S.RESISTOR В S.RESISTOR ERJ2GEJ 184 X (180 kΩ) В R152 7030008300 7030008300 S.RESISTOR ERJ2GEJ 184 X (180 kΩ) В R153 S.RESISTOR ERJ2GEJ 225 X (2.2 MΩ) В R154 7030007320 ERJ2GEJ 184 X (180 kΩ) R155 7030008300 S.RESISTOR В S.RESISTOR ERJ2GEJ 184 X (180 kΩ) В R156 7030008300 R157 7030005080 S.RESISTOR ERJ2GEJ 823 X (82 kΩ) В S.RESISTOR ERJ2GEJ 225 X (2.2 MΩ) В R158 7030007320 R159 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) В 7030007320 ERJ2GEJ 225 X (2.2 MΩ) R160 S.RESISTOR В R161 7030005170 S.RESISTOR ERJ2GEJ 474 X (470 kΩ) В R162 7030005080 S.RESISTOR ERJ2GEJ 823 X (82 kΩ) В R163 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) В R164 7030005160 S.RESISTOR ERJ2GEJ 105 X (1 MΩ) В R165 7030007350 S.RESISTOR ERJ2GEJ 393 X (39 kΩ) В R166 7030007350 S.RESISTOR ERJ2GEJ 393 X (39 kΩ) В R167 7030005050 S.RESISTOR ERJ2GEJ 103 X (10 kΩ) В R168 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) В R169 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) В R170 7030007320 S.RESISTOR ERJ2GEJ 225 X (2.2 MΩ) В R172 7030007320 S.RESISTOR ERJ2GEJ 225 X (2.2 MΩ) В R174 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) В R175 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) В R176 7030006610 S.RESISTOR ERJ2GEJ 394 X (390 kΩ) В R177 7030008300 S.RESISTOR ERJ2GEJ 184 X (180 kΩ) В R178 7030006610 S.RESISTOR ERJ2GEJ 394 X (390 kΩ) В R179 7030008300 S.RESISTOR ERJ2GEJ 184 X (180 kΩ) В R180 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) В R181 7030005590 S.RESISTOR ERJ2GEJ 680 X (68 Ω) Т R182 7030007570 S.RESISTOR ERJ2GEJ 122 X (1.2 kΩ) Т R183 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) Т R184 7030005570 S.RESISTOR ERJ2GEJ 820 X (82 Ω) Т R185 7030003210 S.RESISTOR ERJ3GEYJ 120 V (12 Ω) Т R186 7030003210 S.RESISTOR ERJ3GEYJ 120 V (12 Ω) Т R187 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) Т R188 7030007270 S.RESISTOR ERJ2GEJ 151 X (150 Ω) Т R189 7030005120 S.RESISTOR ERJ2GEJ 102 X (1 kΩ) Т R190 7510001470 S.THERMISTOR NTCG20 4AG 473JT В R191 7030005090 S RESISTOR ERJ2GEJ 104 X (100 kΩ) В R192 7030008300 S.RESISTOR ERJ2GEJ 184 X (180 kΩ) Т R193 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) Т R194 7030005871 S.RESISTOR ERA3YKD 104V (100 kΩ) Т Т R195 7030008051 S RESISTOR ERA3YKD 184V (180 kΩ) R196 7030000120 S RESISTOR MCR10EZHJ 6.8 Ω (6R8) Т R197 7030000120 S.RESISTOR MCR10EZHJ 6.8 Ω (6R8) Т R198 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) Т R199 7030004990 S RESISTOR ERJ2GEJ 221 X (220 Ω) Т R200 7030005210 S RESISTOR ERJ2GEJ 822 X (8.2 kΩ) В R201 7030005170 S RESISTOR ERJ2GEJ 474 X (470 kΩ) В R202 7030005570 S.RESISTOR ERJ2GEJ 820 X (82 Ω) Т R203 7030005570 S RESISTOR ERJ2GEJ 820 X (82 Ω) В R204 7030005570 S RESISTOR ERJ2GEJ 820 X (82 Ω) В R205 7030005570 S RESISTOR ERJ2GEJ 820 X (82 Ω) В ERJ2GEJ 820 X (82 Ω) R206 7030005570 S RESISTOR В R207 7030005090 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) В R208 7030005090 S RESISTOR ERJ2GEJ 104 X (100 kΩ) R R209 7030005090 S RESISTOR ERJ2GEJ 104 X (100 kΩ) В 7030005090 R210 S.RESISTOR ERJ2GEJ 104 X (100 kΩ) В

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[LOGI	IC UNIT]			
REF NO.	ORDER NO.		DESCRIPTION	М.
R211	7030005000	S.RESISTOR	ERJ2GEJ 471 X (470 Ω)	В
R212	7030005000	S.RESISTOR	ERJ2GEJ 471 X (470 Ω)	В
R213	7030010040	S.RESISTOR	ERJ2GE-JPW	В
R214 R215	7030010040 7030010040	S.RESISTOR S.RESISTOR	ERJ2GE-JPW ERJ2GE-JPW	B B
R216	7030010040	S.RESISTOR	ERJ2GE-JPW	В
R217	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	В
C1	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C2 C3	4030017460 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	B B
C4	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C5	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C6	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C7 C8	4030016790 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1C103K ECJ0EB1E102K	B B
C9	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C10	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C11	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C12 C13	4030017460 4030016930	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1A104K	B B
C14	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C16	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C18	4030017420	S.CERAMIC	ECJ0EC1H470J	T
C19 C20	4030017420 4030017420	S.CERAMIC S.CERAMIC	ECJ0EC1H470J ECJ0EC1H470J	T T
C21	4030017420	S.CERAMIC	ECJ0EC1H470J	Ť
C22	4030017640	S.CERAMIC	ECJ0EC1H150J	В
C23	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C24 C26	4030017460 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	B B
C27	4030017400	S.CERAMIC	ECJ0EB1C103K	В
C28	4030017730	S.CERAMIC	ECJ0EB1E471K	В
C29	4030016930	S.CERAMIC	ECJ0EB1A104K	T
C30 C31	4030018870 4550006140	S.CERAMIC S.TANTALUM	ECJ0EF0J105Z ECST1EY474R	B B
C33	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C34	4550006550	S.TANTALUM	TEESVD 0G 227M12R	В
C35	4030018870	S.CERAMIC	ECJ0EF0J105Z	B T
C36 C37	4030017680 4030017420	S.CERAMIC S.CERAMIC	ECJ0EC1H820J ECJ0EC1H470J	В
C38	4550006340	S.TANTALUM	ECST1AY335R	В
C39	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C40 C41	4510007970 4030016930	S.ELECTROLYTIC S.CERAMIC	ECEV1AA330WR	B B
C41	4030010930	S.CERAMIC	ECJ0EB1A104K ECJ0EC1H101J	В
C43	4550006320	S.TANTALUM	ECST0JY475R	В
C44	4550006320	S.TANTALUM	ECST0JY475R	В
C45 C46	4030016930 4030017490	S.CERAMIC S.CERAMIC	ECJ0EB1A104K C1608 JB 1A 105K-T	B B
C47	4030017430	S.CERAMIC	ECJ0EB1A104K	В
C48	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C49	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C50 C51	4030016930 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1A104K ECJ0EB1E102K	B B
C52	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C53	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C54	4030016930 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1A104K ECJ0EB1E102K	B B
C55 C56	4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1C102K	В
C57	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	В
C58	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C59 C60	4030017460 4030016930	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1A104K	B B
C61	4030010930	S.CERAMIC	ECJ0EB1A104K ECJ0EB1E102K	В
C62	4550006320	S.TANTALUM	ECST0JY475R	В
C63	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C64	4030017460 4030016790	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1C103K	B B
C65 C66	4030016790	S.CERAMIC S.CERAMIC	C1608 JB 1A 105K-T	В
C67	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	В
C68	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C69 C70	4030017460 4550006700	S.CERAMIC S.TANTALUM	ECJ0EB1E102K ECST1AY106R	B B
C71	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	В
C72	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	В
C73	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C74 C75	4030017730 4030017490	S.CERAMIC S.CERAMIC	ECJ0EB1E471K C1608 JB 1A 105K-T	B B
C76	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	В

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

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REF **ORDER DESCRIPTION** M. NO. NO. C77 4030017460 S.CERAMIC ECJ0EB1E102K В C78 4030017490 S CERAMIC C1608 JB 1A 105K-T В C79 4030017490 S.CERAMIC C1608 JB 1A 105K-T В C80 4550006700 S.TANTALUM ECST1AY106R В C81 4030017490 S.CERAMIC C1608 JB 1A 105K-T В C82 4550006620 S.TANTALUM ECST0JY226R В C83 4550006620 S.TANTALUM ECST0JY226R В C84 4030017780 S.CERAMIC ECJ0EB1E472K В C85 4030016930 S.CERAMIC ECJ0EB1A104K В 4030016930 ECJ0EB1A104K C86 S.CERAMIC В C87 4030017460 S.CERAMIC ECJ0EB1E102K В C88 4030017460 S.CERAMIC ECJ0EB1E102K В 4030017460 ECJ0EB1E102K C89 S.CERAMIC В 4550006540 ECST1CY475R C90 S.TANTALUM В 4030017460 ECJ0EB1E102K C91 S.CERAMIC В C92 4030017760 S.CERAMIC ECJ0EB1H222K В 4030017460 ECJ0EB1E102K C93 S.CERAMIC В C94 4030017760 ECJ0EB1H222K В S.CERAMIC ECJ0EB1A104K C95 4030016930 S.CERAMIC В C96 4030016930 S.CERAMIC ECJ0EB1A104K В C97 4030016930 S.CERAMIC ECJ0EB1A104K В 4550006540 S.TANTALUM ECST1CY475R C98 В ECJ0EB1C223K C99 4030016970 S.CERAMIC В C100 4030016970 S.CERAMIC ECJ0EB1C223K В 4030016930 S.CERAMIC ECJ0EB1A104K В C101 4030016930 S.CERAMIC ECJ0EB1A104K C102 В C103 4030016930 ECJ0EB1A104K В S.CERAMIC C104 4030016930 S.CERAMIC ECJ0EB1A104K В 4550006540 S.TANTALUM ECST1CY475R C105 В C106 4510008040 S.ELECTROLYTIC EEFCD 0K 330R В 4550006210 S.TANTALUM ECST1CX106R C107 В C108 4030016930 S.CERAMIC ECJ0EB1A104K В 4030016930 S.CERAMIC ECJ0EB1A104K C109 В C110 4030016930 S.CERAMIC ECJ0EB1A104K В C111 4030016930 S.CERAMIC ECJ0EB1A104K В C112 4030016930 S.CERAMIC ECJ0EB1A104K В C113 4030016930 S.CERAMIC ECJ0EB1A104K В C114 4030017460 S.CERAMIC ECJ0EB1E102K В 4030016930 S.CERAMIC ECJ0EB1A104K В C115 C116 4030016930 S.CERAMIC ECJ0EB1A104K В C117 4030017490 S.CERAMIC C1608 JB 1A 105K-T В C118 4030017490 S.CERAMIC C1608 JB 1A 105K-T В C119 4030016930 S.CERAMIC ECJ0EB1A104K В C120 4030016930 S.CERAMIC ECJ0EB1A104K В C122 4030016930 S.CERAMIC ECJ0EB1A104K В C123 4030016930 S.CERAMIC ECJ0EB1A104K В C124 4030016930 S.CERAMIC ECJ0EB1A104K В C125 4030016930 S.CERAMIC ECJ0EB1A104K В C126 4030017490 S.CERAMIC C1608 JB 1A 105K-T В C127 4030017730 S.CERAMIC ECJ0EB1E471K В C128 4030017730 S.CERAMIC ECJ0EB1E471K В C131 4030017490 S.CERAMIC C1608 JB 1A 105K-T В C132 4030017490 S.CERAMIC C1608 JB 1A 105K-T В C133 4030017740 S.CERAMIC ECJ0EB1E821K В C134 4030017740 S.CERAMIC ECJ0EB1E821K В C135 4030017490 S.CERAMIC C1608 JB 1A 105K-T В C136 4030017450 S CFRAMIC ECJ0EB1E271K В C137 4030017450 S.CERAMIC ECJ0EB1E271K В C138 4030017490 S.CERAMIC C1608 JB 1A 105K-T В C139 4030017460 S.CERAMIC ECJ0EB1E102K В C140 4030017430 S CFRAMIC ECJ0EC1H101J В C141 4030017460 S CERAMIC FCJ0FB1F102K В C142 4030017430 S.CERAMIC ECJ0EC1H101J В C143 4030017490 S.CERAMIC C1608 JB 1A 105K-T В C144 4030017490 S.CERAMIC C1608 JB 1A 105K-T В C145 4030016780 S CERAMIC FCJ0FB1C153K В C146 4030016780 S CERAMIC ECJ0EB1C153K В C147 4030018100 S.CERAMIC ECJ0EB1H681K В C148 4030018100 S.CERAMIC ECJ0EB1H681K В C149 4030017490 S CERAMIC C1608 JB 1A 105K-T В C150 4030017460 S CERAMIC FCJ0FB1F102K В C151 4030017460 S CERAMIC ECJ0EB1E102K В C152 4030008680 S.CERAMIC C2012 JF 1C 105Z-T В ECJ0EB1A104K C153 4030016930 S.CERAMIC В S.CERAMIC C154 4030016930 ECJOER1A104K В C155 4030017730 S CERAMIC FCJ0FB1F471K В C156 4030016930 S.CERAMIC FCJ0FB1A104K В C157 4030017730 S.CERAMIC FC:I0FB1F471K В C158 4030016930 S CERAMIC FC.IOFR1A104K R C159 4550006540 S TANTAL UM FCST1CY475R В C160 4030017720 S.CERAMIC ECJ0EB1H331K В

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	C UNIT]			
REF NO.	ORDER NO.		DESCRIPTION	М.
C161	4030017720	S.CERAMIC	ECJ0EB1H331K	В
C162	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В
C163 C164	4030017720 4030017720	S.CERAMIC S.CERAMIC	ECJ0EB1H331K ECJ0EB1H331K	B B
C165	4030017720	S.CERAMIC	ECJ0EB1H331K	В
C166	4030018080	S.CERAMIC	ECJ0EB1H182K	В
C167	4030017760	S.CERAMIC	ECJ0EB1H222K	В
C168	4030018080	S.CERAMIC	ECJ0EB1H182K	В
C169 C170	4030016790 4030016930	S.CERAMIC S.CERAMIC	ECJ0EB1C103K ECJ0EB1A104K	B B
C171	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C172	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C173	4030017460	S.CERAMIC	ECJ0EB1E102K	Т
C174	4030016930	S.CERAMIC	ECJ0EB1A104K	B
C175 C176	4030016930 4030016930	S.CERAMIC S.CERAMIC	ECJ0EB1A104K ECJ0EB1A104K	T
C170	4030010930	S.CERAMIC	ECJ0EB1E102K	
C178	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C179	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C180	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C181	4030017460	S.CERAMIC	ECJ0EB1E102K	B
C182 C183	4030017460 4030017780	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E472K	T
C184	4030017700	S.CERAMIC	C1608 JB 1A 105K-T	В
C185	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C186	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C187	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C188	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C189 C190	4030017460 4030016930	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1A104K	B B
C191	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C192	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C193	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C194	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	B
C196	4030016930	S.CERAMIC	ECJ0EB1A104K	Т
J3	6450002250	CONNECTOR	HSJ1456-010320	В
J5	6510022150	S.CONNECTOR		В
J6	6450002130	CONNECTOR	04-730A2-02BKA	В
J8	6510021900	S.CONNECTOR		T
J9	6510024220	S.CONNECTOR	23FLZ-RSM1-TB	В
DS1	5040002930	S.LED	SML-512MW T86	Т
DS2	5040002930	S.LED	SML-512MW T86	
DS3	5040002930	S.LED	SML-512MW T86	Т
DS4	5040002930	S.LED	SML-512MW T86	T
DS5	5040002930	S.LED	SML-512MW T86	T
DS6 DS7	5040002930 5040002930	S.LED S.LED	SML-512MW T86 SML-512MW T86	T
DS8	5040002930	-	SML-512MW T86	
DS9	5040002930	S.LED	SML-512MW T86	Т
DS11	5040002990	S.LED	SML-512UWT86	Т
DS12	5030002690	LCD	M3-0243TIY	Т
S24	2250000200	ENCODER	TP90N00E20-16F-1517	В
S25	2250000200	ENCODER	TP90N00E20-16F-1517	В
	0045-17	0.05/-		_
EP1	6910012350	S.BEAD	MMZ1608Y 102BT	T
EP2 EP3	6910012350 6910012350	S.BEAD S.BEAD	MMZ1608Y 102BT MMZ1608Y 102BT	T
EP4	6910012350	S.BEAD	MMZ1608Y 102BT	'
EP6	6910014680	S.BEAD	MMZ1608Y 121BT	В
EP7	6910013310	S.BEAD	MMZ1608D121B	Т
EP8	6910014680	S.BEAD	MMZ1608Y 121BT	В
EP9 EP10	6910014690 6910014690	S.BEAD S.BEAD	MPZ1608S221A-T MPZ1608S221A-T	T
EP12		E.OTHER	CV1081 RX2699	
EP13	6910016220	S.BEAD	MZA2010D121C	В
EP14	0910058133	PCB	B 6077C	
			S –Surface m	

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

[RF UN

	REF NO.	ORDER NO.		DESCRIPTION	М.
C2	IC1	1110005230	S.IC	μPC2757TB-E3	Т
112011770 S.I.C	IC2	1110003200	S.IC	TA31136FN (EL)	
1110008320 S.I.C					
1110005220 S.IC					
1110005180 S.I.C					
1110005180 S.IC	IC17	1110003200	S.IC		
1110006360 S.I.C					
C221					
C22					
04 1590001190 S.TRANSISTOR XP6501-(TX) B B 05 1530003260 S.TRANSISTOR 2SC5006-T1 B 014 1530003260 S.TRANSISTOR 2SC5006-T1 B 024 1530003260 S.TRANSISTOR 2SC5006-T1 T 035 1530003260 S.TRANSISTOR 2SC5006-T1 T 036 1530003260 S.TRANSISTOR 2SC5006-T1 T 041 1590003200 S.TRANSISTOR UNR9113J-(TX) T 0501 1590003230 S.TRANSISTOR UNR9113J-(TX) B 0501 1590001810 S.TRANSISTOR WP1113 (TX) B 0502 1590001810 S.TRANSISTOR WP1113 (TX) B 0503 159000180 S.TRANSISTOR WP1110 (TX) B 0504 159000180 S.TRANSISTOR WP1110 (TX) B 0505 159000180 S.TRANSISTOR UNR9113J-(TX) B 0506 159000310 S.TRANSISTOR WP4912 (TX) B 0507 159000320 S.TRANSISTOR WP49113J-(TX) B 0508 159000320 S.TRANSISTOR WP4					
04 1590001190 S.TRANSISTOR XP6501-(TX) B B 05 1530003260 S.TRANSISTOR 2SC5006-T1 B 014 1530003260 S.TRANSISTOR 2SC5006-T1 B 024 1530003260 S.TRANSISTOR 2SC5006-T1 T 035 1530003260 S.TRANSISTOR 2SC5006-T1 T 036 1530003260 S.TRANSISTOR 2SC5006-T1 T 041 1590003200 S.TRANSISTOR UNR9113J-(TX) T 0501 1590003230 S.TRANSISTOR UNR9113J-(TX) B 0501 1590001810 S.TRANSISTOR WP1113 (TX) B 0502 1590001810 S.TRANSISTOR WP1113 (TX) B 0503 159000180 S.TRANSISTOR WP1110 (TX) B 0504 159000180 S.TRANSISTOR WP1110 (TX) B 0505 159000180 S.TRANSISTOR UNR9113J-(TX) B 0506 159000310 S.TRANSISTOR WP4912 (TX) B 0507 159000320 S.TRANSISTOR WP49113J-(TX) B 0508 159000320 S.TRANSISTOR WP4	Ω1	1590001190	S TRANSISTOR	XP6501-(TX) AB	В
014 1530003860 S.TRANSISTOR 2SC5008-T1 T 026 1530003780 S.TRANSISTOR 2SC5008-T1 T 036 1530003260 S.TRANSISTOR 2SC5006-T1 T 036 1530003260 S.TRANSISTOR 2SC5006-T1 T 041 1590003230 S.TRANSISTOR 2SC5006-T1 T 0501 1590003230 S.TRANSISTOR UNR9113-(TX) B 0502 1590001810 S.TRANSISTOR UNR9113-(TX) B 0503 159001610 S.TRANSISTOR XP1113 (TX) B 0504 1590001810 S.TRANSISTOR XP1113 (TX) B 0505 1530002880 S.TRANSISTOR XP1110 (TX) B 0506 159003140 S.TRANSISTOR XP112 (TX) B 0507 1530003801 S.TRANSISTOR XP4501 (TX) B 0508 159001600 S.TRANSISTOR XP4501 (TX) B 0509 159003230 S.TRANSISTOR XP4601 (TX) B		1590001190			
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041 1590003290 S.TRANSISTOR UNR9113-(TX) T 0501 1590003290 S.TRANSISTOR UNR9113-(TX) B 0502 1590001810 S.TRANSISTOR VP1113 (TX) B 0503 1590001810 S.TRANSISTOR XP1113 (TX) B 0504 1590001680 S.TRANSISTOR XP1113 (TX) B 0505 1530003810 S.TRANSISTOR XP1113 (TX) B 0506 159000140 S.TRANSISTOR XP1110 (TX) B 0507 1530003810 S.TRANSISTOR UNP9110-(TX) B 0509 159000150 S.TRANSISTOR UNP9113-(TX) B 0501 159000150 S.TRANSISTOR UNP9113-(TX) B 0510 1590001650 S.TRANSISTOR UNP9113-(TX) B 0511 1590003230 S.TRANSISTOR UNP9113-(TX) B 0521 1530003630 S.TRANSISTOR UNP9113-(TX) B 0521 1530003630 S.TRANSISTOR UNP9113-(TX) B 0522 1530003630 S.TRANSISTOR UNP9113-(TX) T 0525 1590001190 S.TRANSISTOR UPR9					
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Q553 1590001810 S.TRANSISTOR XP1113 (TX) B Q554 1590001810 S.TRANSISTOR XP1113 (TX) B Q555 1530003260 S.TRANSISTOR 2SC5006-T1 T Q556 1530003630 S.TRANSISTOR 2SC4617 TLS T D1 1750000710 S.VARICAP HVC350BTRF B D2 1750000710 S.VARICAP HVC350BTRF B D3 1790001620 S.DIODE 1SV308 (TPL3) T D4 1750000710 S.VARICAP HVC350BTRF T D5 1750000710 S.VARICAP HVC350BTRF T D11 1790001620 S.DIODE 1SV308 (TPL3) T D13 1790001620 S.DIODE 1SV308 (TPL3) T D25 1790001620 S.DIODE 1SV308 (TPL3) B D29 1790001620 S.DIODE 1SV308 (TPL3) T D32 1790001620 S.DIODE 1SV308 (TPL3) T D34					
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REF NO.	ORDER NO.		DESCRIPTION	M.
D57	1790001240	S.DIODE	MA2S728-(TX)	В
D58 D59	1790001260 1790001260	S.DIODE S.DIODE	MA2S077-(TX) MA2S077-(TX)	T T
D60	1790001260	S.DIODE S.DIODE	MA2S077-(TX)	
D61	1790001260	S.DIODE	MA2S077-(TX)	Т
D64	1790001620	S.DIODE	1SV308 (TPL3)	В
D65 D66	1790001620 1790001620	S.DIODE S.DIODE	1SV308 (TPL3) 1SV308 (TPL3)	B B
D67	1790001620	S.DIODE	1SV308 (TPL3)	В
D68	1720000240	S.DIODE	1SV172 (TE85R)	В
D69 D70	1790001620 1790001620	S.DIODE S.DIODE	1SV308 (TPL3) 1SV308 (TPL3)	B B
D72	1790001620	S.DIODE	1SV308 (TPL3)	В
D73	1790001620	S.DIODE	1SV308 (TPL3)	В
D74 D75	1790001620 1790001620	S.DIODE S.DIODE	1SV308 (TPL3) 1SV308 (TPL3)	B T
D76	1790001020	S.DIODE	MA2S077-(TX)	В
D100	1720000820	S.VARICAP	SVC347S/T-TL	В
D101 D106	1790001260 1750000940	S.DIODE S.DIODE	MA2S077-(TX) ISS400 TE61	T B
D100	1750000940	S.DIODE	ISS400 TE61	В
D108	1750000940	S.DIODE	ISS400 TE61	Т
D109	1750000940	S.DIODE	ISS400 TE61	T
D110 D111	1750000940 1750000940	S.DIODE S.DIODE	ISS400 TE61 ISS400 TE61	
D112	1750000940	S.DIODE	ISS400 TE61	T
D113	1750000940	S.DIODE	ISS400 TE61	T
D114 D115	1790001240 1790001790	S.DIODE S.DIODE	MA2S728-(TX) RB876W TL	B T
D116	1790001790	S.DIODE S.DIODE	RB876W TL	
D117	1160000140	S.DIODE	DAP222 TL	В
D119	1160000140	S.DIODE	DAP222 TL	В
D121 D130	1160000140 1790001260	S.DIODE S.DIODE	DAP222 TL MA2S077-(TX)	B T
D131	1790001260	S.DIODE	MA2S077-(TX)	Т
D132	1790001260	S.DIODE	MA2S077-(TX)	T
D133 D134	1790001260 1750000940	S.DIODE S.DIODE	MA2S077-(TX) ISS400 TE61	T T
D134	1750000940	S.DIODE S.DIODE	ISS400 TE61	
D136	1750000940	S.DIODE	ISS400 TE61	Т
D137	1750000940	S.DIODE	ISS400 TE61	T B
D138 D139	1790001240 1790001240	S.DIODE S.DIODE	MA2S728-(TX) MA2S728-(TX)	В
D141	1750000710	S.VARICAP	HVC350BTRF	T
D142	1750000710	S.VARICAP	HVC350BTRF	T
D143 D145	1790001620 1750000710	S.DIODE S.VARICAP	1SV308 (TPL3) HVC350BTRF	T B
D146	1750000710	S.VARICAP	HVC350BTRF	В
D147	1790001620	S.DIODE	1SV308 (TPL3)	В
D148 D149	1790001240 1790001240	S.DIODE S.DIODE	MA2S728-(TX) MA2S728-(TX)	B B
D149	1790001240	S.DIODE	MA2S728-(TX) MA2S728-(TX)	
D151	1790001240	S.DIODE	MA2S728-(TX)	Т
D152	1790001240	S.DIODE	MA2S728-(TX)	В
D153 D154	1790001240 1790001240	S.DIODE S.DIODE	MA2S728-(TX) MA2S728-(TX)	T T
D155	1790001240	S.DIODE	MA2S728-(TX)	+
D156	1790001240	S.DIODE	MA2S728-(TX)	T
D157	1790001240 1790001240	S.DIODE	MA2S728-(TX)	T T
D158 D159	1790001240	S.DIODE S.DIODE	MA2S728-(TX) MA2S728-(TX)	
D160	1790001240	S.DIODE	MA2S728-(TX)	Т
D161	1790001240	S.DIODE	MA2S728 (TX)	В
D162 D163	1790001240 1790001240	S.DIODE S.DIODE	MA2S728-(TX) MA2S728-(TX)	B B
D164	1790001240	S.DIODE	MA2S728-(TX)	В
D165	1790001240	S.DIODE	MA2S728-(TX)	T
D166 D167	1790001240 1790001240	S.DIODE S.DIODE	MA2S728-(TX) MA2S728-(TX)	B T
D167	1790001240	S.DIODE S.DIODE	MA2S728-(TX) MA2S728-(TX)	
D169	1790001240	S.DIODE	MA2S728-(TX)	В
D170	1790001240	S.DIODE	MA2S728-(TX)	В
D171 D172	1750000710 1790001240	S.VARICAP S.DIODE	HVC350BTRF MA2S728-(TX)	T T
D172	1750001240	S.VARICAP	HVC375BTRF	+
D174	1750000720	S.VARICAP	HVC375BTRF	T
D175 D176	1750000720 1750000720	S.VARICAP S.VARICAP	HVC375BTRF HVC375BTRF	T T
D176 D178	1750000720	S.DIODE	ISS400 TE61	
D179	1750000940	S.DIODE	ISS400 TE61	T

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

REF **ORDER DESCRIPTION** M. NO. NO. FI1 2040001200 S.SAW EFCH266MKQP1 CERAMIC CFWLB450KE2A-B0 (CFWM450E) FI2 2020001270 В S.MONOLITH FL-293 (19.650 MHz) FI3 2010002280 Т EFCH429MKQP1 FI4 2040001190 S.SAW **CERAMIC** CFWLA450KL6A002-B0 (CFWS450K3) FI6 2020001470 В S.MONOLITH 2010002280 FI7 FL-293 (19.650 MHz) CFWLB450KE2A-B0 (CFWM450E) FI8 2020001270 **CERAMIC** В 6050010210 S.XTAL Т X1 CR-593 (19.200 MHz) 6200005740 S.COIL ELJRE 47NG-F В 6200005680 ELJRE 15NG-F L3 S.COIL Т 6200005700 ELJRE 22NG-F Т L4 S.COIL L5 6200005680 S.COIL ELJRE 15NG-F Т 6200005720 S.COIL ELJRE 33NG-F Т L9 L10 6200005700 S.COIL ELJRE 22NG-F 6200005680 ELJRE 15NG-F Т L11 S.COIL L12 6200005660 S.COIL ELJRE 10NG-F L13 6200005630 S.COIL ELJRE 5N6Z-F Т 6200005740 S.COIL ELJRE 47NG-F L15 6200007170 MLF1608A 3R3K-T L17 S.COIL Т L21 6150004840 S.COIL LS-510 В L28 6200006670 S.COIL ELJRE 68NG-F В L39 6200005730 S.COIL ELJRE 39NG-F Т L41 6200006980 S.COIL ELJRE R10G-F Т L43 6200006770 S.COIL ELJRE 1N5Z-F L44 6200005620 S.COIL ELJRE 4N7Z-F L56 6200005640 S.COIL ELJRE 6N8Z-F L60 6200008570 S.COIL LQW2BHN6N8D01L (LQN21A 6N8D04) L61 6200008570 S.COIL LQW2BHN6N8D01L (LQN21A 6N8D04) Т 6200004720 S.COIL MLF1608D R10K-T L70 L73 6200006960 S.COIL MLF1608A 2R7K-T L74 6200005740 S.COIL ELJRE 47NG-F L81 6200004940 S.COIL MLF1608D R27K-T В 1.82 6200005140 S.COIL MLF1608D R33K-T В L83 6200004790 S.COIL MLF1608D R47K-T В L84 6200003630 S.COIL MLF1608D R68K-T В L85 6200006970 S.COIL MLF1608A 3R9K-T В L86 6200003630 S.COIL MLF1608D R68K-T В L87 6200003960 S.COIL MLF1608A 1R0K-T В L88 6200006710 S.COIL MLF1608E 5R6K 5.6U В L89 6200003640 S.COIL MLF1608E 100K-T В L90 6200002040 S.COIL NL 252018T-101J В L91 6200006970 S.COIL MLF1608A 3R9K-T В 192 6200005180 S.COIL MLF1608D R39K-T Т L93 6200005700 S.COIL ELJRE 22NG-F Т L94 6200005720 S.COIL ELJRE 33NG-F Т L95 6200005680 S.COIL ELJRE 15NG-F Т 1 99 6200005500 S.COIL NL 322522T-471J Т L101 6200005640 S.COIL ELJRE 6N8Z-F Т L102 6200006960 S.COIL MLF1608A 2R7K-T Т L104 6200007170 S.COIL MLF1608A 3R3K-T Т L105 6150004840 S.COIL LS-510 В L106 6200005500 S.COIL NI 322522T-471.I L112 6200008570 S.COIL LQW2BHN6N8D01L (LQN21A 6N8D04) L113 6200008570 S.COIL LQW2BHN6N8D01L (LQN21A 6N8D04) L119 6200006670 S.COIL ELJRE 68NG-F В L120 6200005740 S.COIL FLIRE 47NG-F В L121 6200009100 S.COIL FLJRF R18G-F В LQW2BHN47NJ01L (LQN21A 47NJ04) 1122 6200007740 SCOIL Т L123 6200009290 S.COIL LQW18AN47NG00D (LQW1608A47NG00) Т L124 6200010910 S.COIL LOW18AN56NG00D LQW18AN47NG00D (LQW1608A47NG00) L125 6200009290 S.COIL 1126 6200009070 S COIL LQW18AN18NG00D (LQW1608A18NG00) I 127 6200009070 S.COIL LQW18AN18NG00D (LQW1608A18NG00) Т L128 6200006980 S.COIL ELJRE R10G-F В L129 6200005610 S.COIL ELJRE 3N9Z-F L130 6200005610 S COIL FLJRF 3N97-F Т I 131 6200005610 S COIL FLJRF 3N97-F Т Т L132 6200005610 S.COIL FLJRF 3N97-F L133 6200006990 S.COIL ELJRE 56NG-F Т Т L134 6200003550 S.COIL MLF1608A 4R7K-T ERJ2GEJ 331 X (330 Ω) R4 7030007280 S RESISTOR Т ERJ2GEJ 121 X (120 Ω) R6 7030005710 S.RESISTOR Т R8 7030007340 S RESISTOR ERJ2GEJ 153 X (15 kΩ) R R9 7030005310 S RESISTOR ERJ2GEJ 124 X (120 kΩ) В R10 7030005240 S.RESISTOR ERJ2GEJ 473 X (47 kΩ) В

[RF UNIT]

[RF UNIT]				
REF NO.	ORDER NO.		DESCRIPTION	М.
R11	7030005240	S.RESISTOR	ERJ2GEJ 473 X (47 kΩ)	В
R13 R14	7030007340	S.RESISTOR	ERJ2GEJ 153 X (15 kΩ) ERJ2GEJ 683 X (68 kΩ)	T
R15	7030005070	S.RESISTOR S.RESISTOR	ERJ2GEJ 473 X (47 kΩ)	T
R16	7030005240	S.RESISTOR	ERJ2GEJ 473 X (47 kΩ)	Ť
R18	7030007340	S.RESISTOR	ERJ2GEJ 153 X (15 kΩ)	Т
R19	7030005240	S.RESISTOR	ERJ2GEJ 473 X (47 kΩ)	T
R20 R26	7030007280	S.RESISTOR S.RESISTOR	ERJ2GEJ 331 X (330 Ω) ERJ2GEJ 473 X (47 kΩ)	T B
R28	7030005240 7030005160	S.RESISTOR	ERJ2GEJ 473 X (47 KΩ2) ERJ2GEJ 105 X (1 MΩ)	В
R29	7030005170	S.RESISTOR	ERJ2GEJ 474 X (470 kΩ)	В
R30	7030007300	S.RESISTOR	ERJ2GEJ 332 X (3.3 kΩ)	В
R31	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	В
R34 R35	7030005120 7030007340	S.RESISTOR S.RESISTOR	ERJ2GEJ 102 X (1 kΩ) ERJ2GEJ 153 X (15 kΩ)	T
R36	7030007340	S.RESISTOR	ERJ2GEJ 224 X (220 kΩ)	'
R46	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	Ť
R49	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	Т
R50	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	T
R54	7030005220 7030007290	S.RESISTOR S.RESISTOR	ERJ2GEJ 223 X (22 kΩ) ERJ2GEJ 222 X (2.2 kΩ)	T
R55 R56	7030007290	S.RESISTOR	ERJ2GEJ 222 X (2.2 KΩ) ERJ2GEJ 471 X (470 Ω)	
R57	7030007340	S.RESISTOR	ERJ2GEJ 153 X (15 kΩ)	T
R58	7030005010	S.RESISTOR	ERJ2GEJ 681 X (680 Ω)	Т
R59	7030005030	S.RESISTOR	ERJ2GEJ 152 X (1.5 kΩ)	T
R60	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	T
R61 R62	7030005240 7030009160	S.RESISTOR S.RESISTOR	ERJ2GEJ 473 X (47 kΩ) ERJ2GEJ 181 X (180 Ω)	T
R68	7030009100	S.RESISTOR	ERJ2GEJ 473 X (47 kΩ)	Τ
R78	7030007280	S.RESISTOR	ERJ2GEJ 331 X (330 Ω)	В
R81	7030007290	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	В
R88	7030007280	S.RESISTOR	ERJ2GEJ 331 X (330 Ω)	T
R91	7030007290	S.RESISTOR S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	T
R93 R95	7030005710 7030007290	S.RESISTOR	ERJ2GEJ 121 X (120 Ω) ERJ2GEJ 222 X (2.2 kΩ)	
R98	7030007290	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	Ť
R99	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	Т
R100	7030008010	S.RESISTOR	ERJ2GEJ 123 X (12 kΩ)	T
R101	7030005240	S.RESISTOR	ERJ2GEJ 473 X (47 kΩ)	T
R102 R103	7030007290 7030005050	S.RESISTOR S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ) ERJ2GEJ 103 X (10 kΩ)	T
R105	7030005590	S.RESISTOR	ERJ2GEJ 680 X (68 Ω)	Τ
R106	7030005240	S.RESISTOR	ERJ2GEJ 473 X (47 kΩ)	Т
R108	7030007290	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	Т
R110	7030008010	S.RESISTOR	ERJ2GEJ 123 X (12 kΩ)	T
R112 R116	7030007290 7030005100	S.RESISTOR S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ) ERJ2GEJ 154 X (150 kΩ)	T B
R159	7030005100	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	Т
R172	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	Ť
R174	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	Т
R177	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	В
R179 R203	7030005100 7030004980	S.RESISTOR S.RESISTOR	ERJ2GEJ 154 X (150 kΩ) ERJ2GEJ 101 X (100 Ω)	B T
R204	7030004980	S.RESISTOR	ERJ2GEJ 101 X (100 Ω)	
R205	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	T
R207	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	Т
R208	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	T
R209 R216	7030005010 7030007290	S.RESISTOR S.RESISTOR	ERJ2GEJ 681 X (680 Ω) ERJ2GEJ 222 X (2.2 kΩ)	T B
R216	7030007290	S.RESISTOR S.RESISTOR	ERJ2GEJ 222 X (2.2 KΩ) ERJ2GEJ 150 X (15 Ω)	T
R221	7030003300	S.RESISTOR	ERJ2GEJ 331 X (330 Ω)	Ť
R222	7030007290	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	В
R223	7030007290	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	В
R224 R225	7030007300 7030005120	S.RESISTOR S.RESISTOR	ERJ2GEJ 332 X (3.3 kΩ) ERJ2GEJ 102 X (1 kΩ)	B B
R225 R226	7030005120	S.RESISTOR S.RESISTOR	ERJ2GEJ 102 X (1 KΩ) ERJ2GEJ 222 X (2.2 kΩ)	В
R228	7030007230	S.RESISTOR	ERJ2GEJ 101 X (100 Ω)	В
R229	7030005240	S.RESISTOR	ERJ2GEJ 473 X (47 kΩ)	В
R230	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	В
R231	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ) ERJ2GEJ 332 X (3.3 kΩ)	T B
R232 R233	7030007300 7030009270	S.RESISTOR S.RESISTOR	ERJ2GEJ 332 X (3.3 KΩ) ERJ2GEJ 821 X (820 Ω)	B
R234	7030009270	S.RESISTOR	ERJ2GEJ 821 X (820 Ω)	В
R235	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	В
R236	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	В
R237	7030009140	S.RESISTOR	ERJ2GEJ 272 X (2.7 kΩ)	В
R238	7030005090	S.RESISTOR S.RESISTOR	ERJ2GEJ 104 X (100 kΩ) ERJ2GEJ 222 X (2.2 kΩ)	B T
R239 R240	7030007290 7030005120	S.RESISTOR S.RESISTOR	ERJ2GEJ 222 X (2.2 KΩ) ERJ2GEJ 102 X (1 kΩ)	I В
R241	7030003120	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	В
R243	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	В

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

[RF UNIT]

[RF U	1411]			
REF NO.	ORDER NO.		DESCRIPTION	М.
R445	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	Т
R446	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	В
R447 R448	7030004990	S.RESISTOR S.RESISTOR	ERJ2GEJ 221 X (220 Ω) ERJ2GEJ 222 X (2.2 kΩ)	T
R449	7030007290	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	
R450	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	Ť
R451	7030007300	S.RESISTOR	ERJ2GEJ 332 X (3.3 kΩ)	В
R452	7030005100	S.RESISTOR	ERJ2GEJ 154 X (150 kΩ)	В
R453 R454	7030005100	S.RESISTOR S.RESISTOR	ERJ2GEJ 154 X (150 kΩ) ERJ2GEJ 104 X (100 kΩ)	B B
R455	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kg2)	В
R457	7030005240	S.RESISTOR	ERJ2GEJ 473 X (47 kΩ)	В
R458	7030005160	S.RESISTOR	ERJ2GEJ 105 X (1 MΩ)	В
R459	7030005170	S.RESISTOR	ERJ2GEJ 474 X (470 kΩ)	B
R461 R462	7030005050	S.RESISTOR S.RESISTOR	ERJ2GEJ 103 X (10 kΩ) ERJ2GEJ 392 X (3.9 kΩ)	T B
R463	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	В
R464	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	В
R465	7030005220	S.RESISTOR	ERJ2GEJ 223 X (22 kΩ)	В
R466	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	В
R467 R469	7030005090 7030005070	S.RESISTOR S.RESISTOR	ERJ2GEJ 104 X (100 kΩ) ERJ2GEJ 683 X (68 kΩ)	T
R471	7030007340	S.RESISTOR	ERJ2GEJ 153 X (15 kΩ)	-
R472	7030007280	S.RESISTOR	ERJ2GEJ 331 X (330 Ω)	Т
R473	7030005240	S.RESISTOR	ERJ2GEJ 473 X (47 kΩ)	T
R474	7030005240	S.RESISTOR	ERJ2GEJ 473 X (47 kΩ)	T
R475 R476	7030007290 7030005310	S.RESISTOR S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ) ERJ2GEJ 124 X (120 kΩ)	В
R478	7030007280	S.RESISTOR	ERJ2GEJ 331 X (330 Ω)	В
R479	7030007340	S.RESISTOR	ERJ2GEJ 153 X (15 kΩ)	В
R481	7030005240	S.RESISTOR	ERJ2GEJ 473 X (47 kΩ)	В
R482 R483	7030007290	S.RESISTOR S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ) ERJ2GEJ 473 X (47 kΩ)	B B
R484	7030005240	S.RESISTOR	ERJ2GEJ 473 X (47 KΩ) ERJ2GEJ 223 X (22 kΩ)	В
R485	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	В
R486	7030004980	S.RESISTOR	ERJ2GEJ 101 X (100 Ω)	В
R487	7030004980	S.RESISTOR	ERJ2GEJ 101 X (100 Ω)	В
R488 R489	7030007280 7030005220	S.RESISTOR S.RESISTOR	ERJ2GEJ 331 X (330 Ω) ERJ2GEJ 223 X (22 kΩ)	B T
R490	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	Ť
R491	7030007280	S.RESISTOR	ERJ2GEJ 331 X (330 Ω)	Т
R492	7030007270	S.RESISTOR	ERJ2GEJ 151 X (150 Ω)	T
R493 R494	7030007270	S.RESISTOR S.RESISTOR	ERJ2GEJ 151 X (150 Ω) ERJ2GEJ 472 X (4.7 kΩ)	T
R495	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	'
R496	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	T
R497	7030004990	S.RESISTOR	ERJ2GEJ 221 X (220 Ω)	Т
R498	7030004980	S.RESISTOR	ERJ2GEJ 101 X (100 Ω)	T
R499 R500	7030005570 7030005570	S.RESISTOR S.RESISTOR	ERJ2GEJ 820 X (82 Ω) ERJ2GEJ 820 X (82 Ω)	T
R501	7030005070	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	
R503	7030007310	S.RESISTOR	ERJ2GEJ 155 X (1.5 MΩ)	Т
R505	7030008010	S.RESISTOR	ERJ2GEJ 123 X (12 kΩ)	T
R510	7030007290	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	В
R511 R512	7030007290 7030008410	S.RESISTOR S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ) ERJ2GEJ 392 X (3.9 kΩ)	B T
R513	7030005110	S.RESISTOR	ERJ2GEJ 224 X (220 kΩ)	Τ
R514	7030007290	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	T
R515	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	T
R516 R517	7030005090 7030005120	S.RESISTOR S.RESISTOR	ERJ2GEJ 104 X (100 kΩ) ERJ2GEJ 102 X (1 kΩ)	T
R517	7030005120	S.RESISTOR	ERJ2GEJ 102 X (1 kΩ)	†
R519	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	Т
R520	7030004970	S.RESISTOR	ERJ2GEJ 470 X (47 Ω)	T
R521	7030004970	S.RESISTOR	ERJ2GE J 470 X (47 Ω)	T
R522 R523	7030005090	S.RESISTOR S.RESISTOR	ERJ2GEJ 104 X (100 kΩ) ERJ2GEJ 104 X (100 kΩ)	
R524	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	Ť
R525	7030005530	S.RESISTOR	ERJ2GEJ 100 X (10 Ω)	В
R526	7030005530	S.RESISTOR	ERJ2GE J 100 X (10 Ω)	В
R527 R528	7030005530	S.RESISTOR S.RESISTOR	ERJ2GEJ 100 X (10 Ω) ERJ2GEJ 222 X (2.2 kΩ)	B T
R529	7030007230	S.RESISTOR	ERJ2GEJ 471 X (470 Ω)	Ť
R530	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	Ť
R531	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	В
R532	7030005530	S.RESISTOR	ERJ2GE I 100 X (10 Ω)	B B
R533 R534	7030005530	S.RESISTOR S.RESISTOR	ERJ2GEJ 100 X (10 Ω) ERJ2GEJ 2R7 X (2.7 Ω)	В
R536	7030011130	S.RESISTOR	ERJ3GEYJ 560 V (56 Ω)	T
R537	7030003290	S.RESISTOR	ERJ3GEYJ 560 V (56 Ω)	T
R538	7030010040	S.RESISTOR	ERJ2GE-JPW	В

REF NO.	ORDER NO.		DESCRIPTION	М.
R245	7030005220	S.RESISTOR	ERJ2GEJ 223 X (22 kΩ)	В
R246	7030005110	S.RESISTOR	ERJ2GEJ 224 X (220 kΩ)	В
R247	7030011150	S.RESISTOR	ERJ2GEJ 2R7 X (2.7 Ω)	В
R323	7030004990	S.RESISTOR	ERJ2GEJ 221 X (220 Ω)	T
R324	7030004980	S.RESISTOR	ERJ2GEJ 101 X (100 Ω)	T
R325	7030005570	S.RESISTOR	ERJ2GEJ 820 X (82 Ω)	T
R326 R327	7030005570	S.RESISTOR S.RESISTOR	ERJ2GEJ 820 X (82 Ω) ERJ2GEJ 101 X (100 Ω)	T B
R329	7030004980	S.RESISTOR	ERJ2GEJ 101 X (100 Ω)	В
R330	7030007340	S.RESISTOR	ERJ2GEJ 153 X (15 kΩ)	В
R335	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	T
R346	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	Т
R347	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	Т
R352	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	T
R353	7030005240	S.RESISTOR	ERJ2GEJ 473 X (47 kΩ)	T
R354 R355	7030005600	S.RESISTOR S.RESISTOR	ERJ2GEJ 273 X (27 kΩ) ERJ2GEJ 152 X (1.5 kΩ)	T T
R356	7030003030	S.RESISTOR	ERJ2GEJ 132 X (1.5 kΩ) ERJ2GEJ 271 X (270 Ω)	'
R357	7030005230	S.RESISTOR	ERJ2GEJ 334 X (330 kΩ)	Ť
R358	7030005030	S.RESISTOR	ERJ2GEJ 152 X (1.5 kΩ)	Ť
R359	7030005110	S.RESISTOR	ERJ2GEJ 224 X (220 kΩ)	Т
R360	7030007290	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	Т
R361	7030005100	S.RESISTOR	ERJ2GEJ 154 X (150 kΩ)	T
R362	7030005100	S.RESISTOR	ERJ2GEJ 154 X (150 kΩ)	T
R363	7030005040	S.RESISTOR	ERJ2GE J 563 Y (56 kΩ)	T T
R364 R365	7030005720	S.RESISTOR S.RESISTOR	ERJ2GEJ 563 X (56 kΩ) ERJ2GEJ 223 X (22 kΩ)	
R366	7030005220	S.RESISTOR	ERJ2GEJ 223 X (22 kΩ) ERJ2GEJ 104 X (100 kΩ)	T
R367	7030005050	S.RESISTOR	ERJ2GEJ 224 X (220 kΩ)	Τ̈́
R368	7030007340	S.RESISTOR	ERJ2GEJ 153 X (15 kΩ)	Т
R369	7030007280	S.RESISTOR	ERJ2GEJ 331 X (330 Ω)	Т
R370	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	Т
R372	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	T
R373	7030008410	S.RESISTOR	ERJ2GEJ 392 X (3.9 kΩ)	В
R374	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ) ERJ2GEJ 103 X (10 kΩ)	B B
R375 R376	7030005050 7030005220	S.RESISTOR S.RESISTOR	ERJ2GEJ 103 X (10 kΩ) ERJ2GEJ 223 X (22 kΩ)	В
R377	7030005040	S.RESISTOR	ERJ2GEJ 472 X (4.7 kΩ)	В
R378	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	В
R379	7030007310	S.RESISTOR	ERJ2GEJ 155 X (1.5 MΩ)	Т
R380	7030009140	S.RESISTOR	ERJ2GEJ 272 X (2.7 kΩ)	Т
R381	7030007280	S.RESISTOR	ERJ2GEJ 331 X (330 Ω)	T
R382	7030005030	S.RESISTOR	ERJ2GEJ 152 X (1.5 kΩ)	T
R383 R384	7030005030 7030005240	S.RESISTOR S.RESISTOR	ERJ2GEJ 152 X (1.5 kΩ) ERJ2GEJ 473 X (47 kΩ)	T T
R385	7030005240	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	<u> </u>
R386	7030007290	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	Τ
R387	7030007290	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	Т
R388	7030007290	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	Т
R389	7030007290	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	Т
R390	7030005600		ERJ2GEJ 273 X (27 kΩ)	T
R391	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	T
R392 R393	7030005240 7030005220	S.RESISTOR S.RESISTOR	ERJ2GEJ 473 X (47 kΩ) ERJ2GEJ 223 X (22 kΩ)	T
R394	7030005220	S.RESISTOR	ERJ2GEJ 273 X (27 kΩ)	<u> </u>
R396	7030005220	S.RESISTOR	ERJ2GEJ 223 X (22 kΩ)	Τ̈́
R397	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	В
R398	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	В
R414	7030008010	S.RESISTOR	ERJ2GEJ 123 X (12 kΩ)	T
R415	7030007310	S.RESISTOR	ERJ2GEJ 155 X (1.5 MΩ)	T
R423	7030005300	S.RESISTOR	ERJ2GE J 150 X (15 Ω)	T
R425 R426	7030005120	S.RESISTOR S.RESISTOR	ERJ2GEJ 102 X (1 kΩ) ERJ2GEJ 681 X (680 Ω)	T
R427	7030003010	S.RESISTOR	ERJ2GEJ 101 X (100 Ω)	'
R428	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	Ť
R429	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	T
R430	7030005050	S.RESISTOR	ERJ2GEJ 103 X (10 kΩ)	Т
R431	7030005110	S.RESISTOR	ERJ2GEJ 224 X (220 kΩ)	T
R432	7030007340	S.RESISTOR	ERJ2GEJ 153 X (15 kΩ)	T
R433	7030005120	S.RESISTOR	ERJ2GE J 102 X (1 kΩ)	T
R434 R435	7030009160 7030005240	S.RESISTOR S.RESISTOR	ERJ2GEJ 181 X (180 Ω) ERJ2GEJ 473 X (47 kΩ)	T
R436	7030003240	S.RESISTOR	ERJ2GEJ 222 X (2.2 kΩ)	<u> </u>
R437	7030005220	S.RESISTOR	ERJ2GEJ 223 X (22 kΩ)	Ť
R438	7030005090	S.RESISTOR	ERJ2GEJ 104 X (100 kΩ)	Т
R439	7030005030	S.RESISTOR	ERJ2GEJ 152 X (1.5 kΩ)	Т
R440	7030005240	S.RESISTOR	ERJ2GEJ 473 X (47 kΩ)	Т
R441	7030005010	S.RESISTOR	ERJ2GEJ 681 X (680 Ω)	T
R442	7030007340	S.RESISTOR	ERJ2GEJ 153 X (15 kΩ) ERJ2GEJ 471 X (470 Ω)	T
R443 R444	7030005000 7030005120	S.RESISTOR S.RESISTOR	ERJ2GEJ 471 X (470 Ω) ERJ2GEJ 102 X (1 kΩ)	T
1				

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

ORDER REF **DESCRIPTION** M. NO. NO. R539 7030005300 S.RESISTOR ERJ2GEJ 150 X (15 Ω) В R540 7030005300 S RESISTOR ERJ2GEJ 150 X (15 Ω) В R541 7030007270 S.RESISTOR ERJ2GEJ 151 X (150 Ω) Т R542 7030007340 S.RESISTOR ERJ2GEJ 153 X (15 kΩ) Т 4030017730 S.CERAMIC ECJ0EB1E471K C5 C12 4030017420 S.CERAMIC ECJ0EC1H470J В C13 4030017650 S.CERAMIC ECJ0EC1H270J В C14 4030017460 S.CERAMIC ECJ0EB1E102K В C15 4030017340 S.CERAMIC ECJ0EC1H010B В C16 4030017460 S.CERAMIC ECJ0EB1E102K В C18 4030016790 S.CERAMIC ECJ0EB1C103K Т C22 4030017590 S.CERAMIC ECJ0EC1H070C Т Т C23 4030017380 S.CERAMIC ECJ0EC1H050B C27 4030017460 S.CERAMIC ECJ0EB1E102K Т 4030017460 ECJ0EB1E102K Т C28 S.CERAMIC C30 4030017460 ECJ0EB1E102K S.CERAMIC 4030017460 C32 S.CERAMIC ECJ0EB1E102K Т C40 4030017640 S.CERAMIC ECJ0EC1H150J C41 4030017380 S.CERAMIC ECJ0EC1H050B Т C42 4030017370 ECJ0EC1H3R5B S.CERAMIC C43 4030017430 S.CERAMIC ECJ0EC1H101J Т C44 4030016790 S.CERAMIC ECJ0EB1C103K Т C45 4030017730 S.CERAMIC ECJ0EB1E471K Т C46 4030017360 S.CERAMIC ECJ0EC1H030B Т C47 4030017580 ECJ0EC1H060C Т S.CERAMIC C48 4030017580 S.CERAMIC ECJ0EC1H060C Т C49 4030017360 S.CERAMIC ECJ0EC1H030B Т C50 4030017340 S.CERAMIC ECJ0EC1H010B 4030017560 S.CERAMIC ECJ0EC1H2R5B Т C51 C52 4030017730 S.CERAMIC ECJ0EB1E471K Т 4030017460 S.CERAMIC ECJ0EB1E102K C54 Т C55 4030017460 S.CERAMIC ECJ0EB1E102K C58 4030017460 S.CERAMIC ECJ0EB1E102K Т C59 4030017350 S.CERAMIC ECJ0EC1H020B C60 4030016790 S.CERAMIC ECJ0EB1C103K В C61 4030017460 S.CERAMIC ECJ0EB1E102K В 4550006200 S.TANTALUM ECST0JY106R В C62 C63 4030017700 S.CERAMIC ECJ0EC1H151J В C64 4030017640 S.CERAMIC ECJ0EC1H150J В C65 4030016790 S.CERAMIC ECJ0EB1C103K В C66 4030016790 S.CERAMIC ECJ0EB1C103K В C69 4030017460 S.CERAMIC ECJ0EB1E102K В C70 4030017460 S.CERAMIC ECJ0EB1E102K Т C71 4030017360 S.CERAMIC ECJ0EC1H030B Т C73 4030017460 S.CERAMIC ECJ0EB1E102K Т C74 4030017460 S.CERAMIC ECJ0EB1E102K В C75 4030017460 S.CERAMIC ECJ0EB1E102K Т C92 4030016790 S.CERAMIC ECJ0EB1C103K Т C93 4030017460 S.CERAMIC ECJ0EB1E102K Т C94 4030017460 S.CERAMIC ECJ0EB1E102K Т C95 4030017460 S.CERAMIC ECJ0EB1E102K Т C96 4030016790 S.CERAMIC ECJ0EB1C103K Т C97 4030016790 S.CERAMIC ECJ0EB1C103K Т C98 4030017730 S.CERAMIC ECJ0EB1E471K Т C99 4030017730 S CFRAMIC ECJ0EB1E471K Т C100 4030016930 S.CERAMIC ECJ0EB1A104K Т C101 4030017620 S.CERAMIC ECJ0EC1H100C Т C102 4030017460 S.CERAMIC ECJ0EB1E102K Т C103 4030016790 S CFRAMIC ECJ0EB1C103K Т C121 4030017460 S CERAMIC FCJ0FB1F102K В C134 4030017460 S.CERAMIC ECJ0EB1E102K Т C136 4030017590 S.CERAMIC ECJ0EC1H070C Т C138 4030017730 S.CERAMIC ECJ0EB1E471K Т C141 4030016790 S CERAMIC FCJ0FB1C103K Т C142 4030017460 S CFRAMIC FCJ0FB1F102K Т C145 4030017460 S.CERAMIC ECJ0EB1E102K Т C147 4030017560 S.CERAMIC ECJ0EC1H2R5B Т C148 4030017730 S CERAMIC FCJ0FB1F471K Т C150 4030017460 S CERAMIC FCJ0FB1F102K Т Т C153 4030016930 S CERAMIC ECJ0EB1A104K C200 4030016790 S.CERAMIC ECJ0EB1C103K В C201 4030016930 S.CERAMIC ECJ0EB1A104K Т C202 4030016930 S CERAMIC FCJ0FB1A104K т C203 4030016930 S CERAMIC ECJ0EB1A104K В C206 4030017370 S.CERAMIC ECJ0EC1H3R5B Т C214 4030017460 S.CERAMIC ECJ0EB1E102K Т

[RF UNIT]				
REF NO.	ORDER NO.		DESCRIPTION	М.
C239	4030016790	S.CERAMIC	ECJ0EB1C103K	T
C241	4030011810	S.CERAMIC S.CERAMIC	C1608 JB 1A 224K-T C1608 JB 1A 224K-T	B T
C242 C259	4030011810 4030017430	S.CERAMIC S.CERAMIC	ECJ0EC1H101J	'
C264	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C402	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C408	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C410 C414	4030017460 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	T
C416	4030017400	S.CERAMIC	ECJ0EC1H270J	В
C424	4030016790	S.CERAMIC	ECJ0EB1C103K	Т
C427	4030017400	S.CERAMIC	ECJ0EC1H220J	Т
C430	4030016790	S.CERAMIC	ECJ0EB1C103K	T
C431 C432	4030016790 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1C103K ECJ0EB1E102K	T
C433	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C434	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C435	4030017460	S.CERAMIC	ECJ0EB1E102K	Т
C436	4030017360	S.CERAMIC	ECJ0EC1H030B	T
C503 C504	4030017460 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	B B
C505	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C511	4030018010	S.CERAMIC	ECJ0EC1H360J	В
C512	4030017620	S.CERAMIC	ECJ0EC1H100C	В
C513 C514	4030017430 4030017710	S.CERAMIC S.CERAMIC	ECJ0EC1H101J ECJ0EC1H181J	B B
C514	4030017710	S.CERAMIC	ECJ0EC1H181J ECJ0EC1H121J	В
C516	4030017440	S.CERAMIC	ECJ0EC1H221J	В
C517	4030017430	S.CERAMIC	ECJ0EC1H101J	В
C518	4030017440	S.CERAMIC	ECJ0EC1H221J	В
C519 C520	4030017780	S.CERAMIC	ECJ0EB1E472K ECJ0EB1H182K	B B
C520	4030018080 4030016930	S.CERAMIC S.CERAMIC	ECJ0EB1A104K	В
C522	4030017910	S.CERAMIC	ECJ0EB1H152K	В
C523	4030017910	S.CERAMIC	ECJ0EB1H152K	В
C524	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C525	4030017780	S.CERAMIC	ECJ0EB1E472K	В
C526 C527	4030017900 4030017420	S.CERAMIC S.CERAMIC	ECJ0EB1C123K ECJ0EC1H470J	B B
C528	4030017620	S.CERAMIC	ECJ0EC1H100C	В
C529	4030017700	S.CERAMIC	ECJ0EC1H151J	В
C530	4030017450	S.CERAMIC	ECJ0EB1E271K	В
C531 C532	4030017430	S.CERAMIC S.CERAMIC	ECJ0EC1H101J ECJ0EB1A104K	B B
C533	4030016930 4030017910	S.CERAMIC	ECJ0EB1H152K	В
C534	4030017430	S.CERAMIC	ECJ0EC1H101J	В
C535	4030017750	S.CERAMIC	ECJ0EB1E122K	В
C536	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C537 C538	4030016930 4030016930	S.CERAMIC S.CERAMIC	ECJ0EB1A104K ECJ0EB1A104K	B B
C539	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C540	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C541	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C542	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C543 C544	4030017460 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	B B
C545	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C546	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C548	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C558	4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K	В
C560 C561	4030017460 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	T B
C562	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C563	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C566	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C567	4030016930	S.CERAMIC	ECJ0EB1A104K	В
C568 C569	4030017420 4030016930	S.CERAMIC S.CERAMIC	ECJ0EC1H470J ECJ0EB1A104K	T B
C570	4030010930	S.CERAMIC	ECJ0EB1E102K	В
C571	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C657	4030017700	S.CERAMIC	ECJ0EC1H151J	В
C658	4030018140	S.CERAMIC	ECSTO IV106B	В
C659 C662	4550006200 4030016930	S.TANTALUM S.CERAMIC	ECST0JY106R ECJ0EB1A104K	B T
C663	4030016930	S.CERAMIC	ECJ0EB1A104K	<u> </u>
C664	4030016930	S.CERAMIC	ECJ0EB1A104K	Т
C665	4030017430	S.CERAMIC	ECJ0EC1H101J	Т
C666	4030018140	S.CERAMIC	ECJ0EB1H391K	T
C667 C669	4030016790 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1C103K ECJ0EB1E102K	B B
C673	4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	T

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

FCJ0FC1H010B

FCJ0FB1C103K

ECJ0EB1E102K

S.CERAMIC

S CERAMIC

S.CERAMIC

C218

C221

C233

4030017340

4030016790

4030017460

S.=Surface mount

Т Т

В

IRF UNIT1

ORDER

REF

C774

C775

C776

C777

C778

C779

C780

C781

C782

C783

C784

C785

C786

4030016790

4550006200

4030011810

4030016790

4030016790

4030016790

4030016930

4030017440

4030017440

4030016930

4030016790

4030017640

4030017700

S.CERAMIC

S CFRAMIC

S CFRAMIC

S.CERAMIC

S.CERAMIC

S CFRAMIC

S CFRAMIC

S CERAMIC

S.CERAMIC

S CERAMIC

S CFRAMIC

S.CERAMIC

S TANTAL UM

DESCRIPTION M. NO. NO. C674 4030017420 S.CERAMIC ECJ0EC1H470J В C676 4030017400 S CERAMIC ECJ0EC1H220J C677 4030017350 S.CERAMIC ECJ0EC1H020B Т C678 4030017460 S.CERAMIC ECJ0EB1E102K Т Т C679 4030017460 S.CERAMIC ECJ0EB1E102K C683 4030017460 S.CERAMIC FCJ0FB1F102K Т Т C686 4030018140 S.CERAMIC ECJ0EB1H391K C687 4030018140 S.CERAMIC ECJ0EB1H391K Т C688 4030016790 S.CERAMIC ECJ0EB1C103K Т 4030016790 C689 S.CERAMIC ECJ0EB1C103K Т Т C690 4030016790 S.CERAMIC ECJ0EB1C103K C691 4030016790 S.CERAMIC ECJ0EB1C103K Т Т C692 4030016790 S.CERAMIC ECJ0EB1C103K 4030016930 C694 S.CERAMIC ECJ0EB1A104K Т Т C697 4030016790 S.CERAMIC ECJ0EB1C103K C698 4030016790 S.CERAMIC ECJ0EB1C103K Т S.CERAMIC Т C699 4030017440 ECJ0EC1H221J C700 4030016790 S.CERAMIC ECJ0EB1C103K C701 4030016790 S.CERAMIC ECJ0EB1C103K Т C702 4030016930 S.CERAMIC ECJ0EB1A104K C703 4030017480 S.CERAMIC C1608 JB 1A 474K-T Т C704 4030016790 S.CERAMIC ECJ0EB1C103K C705 4030016930 S.CERAMIC ECJ0EB1A104K Т C706 4030017460 S.CERAMIC ECJ0EB1E102K 4030017460 S.CERAMIC ECJ0EB1E102K В C707 C708 4030011810 S.CERAMIC C1608 JB 1A 224K-T В 4030016930 S.CERAMIC ECJ0EB1A104K В C709 C710 4030017460 S.CERAMIC ECJ0EB1E102K В C711 S.CERAMIC 4030016930 ECJ0EB1A104K Т C712 4030016930 S.CERAMIC ECJ0EB1A104K C713 4030016930 S.CERAMIC ECJ0EB1A104K Т C714 4030016790 S.CERAMIC ECJ0EB1C103K Т C715 S.CERAMIC Т 4030016790 ECJ0EB1C103K C716 4030017730 S.CERAMIC ECJ0EB1E471K C717 4030016930 S.CERAMIC ECJ0EB1A104K Т C718 4030016790 S.CERAMIC ECJ0EB1C103K C719 4030017460 S.CERAMIC ECJ0EB1E102K Т C720 4030016790 S.CERAMIC ECJ0EB1C103K C740 4030016790 S.CERAMIC ECJ0EB1C103K Т C741 4030016790 S.CERAMIC ECJ0EB1C103K C744 4030016790 S.CERAMIC ECJ0EB1C103K Т C745 4030017730 S.CERAMIC ECJ0EB1E471K Т C746 4030017370 S.CERAMIC ECJ0EC1H3R5B Т C747 4030017460 S.CERAMIC ECJ0EB1E102K C748 4030017460 S.CERAMIC ECJ0EB1E102K Т C749 4030017460 S.CERAMIC ECJ0EB1E102K Т C750 4030017460 S.CERAMIC ECJ0EB1E102K Т C752 4030017400 S.CERAMIC ECJ0EC1H220J C753 4030017400 S.CERAMIC ECJ0EC1H220J Т C754 4030017460 S.CERAMIC ECJ0EB1E102K Т C755 4030017730 S.CERAMIC ECJ0EB1E471K Т C756 4030016930 S.CERAMIC ECJ0EB1A104K Т C757 4030016930 S.CERAMIC ECJ0EB1A104K Т C758 4030016790 S.CERAMIC ECJ0EB1C103K Т C759 4030017460 S.CERAMIC ECJ0EB1E102K Т C760 4030017460 S.CERAMIC ECJ0EB1E102K Т C761 4030017460 S CFRAMIC ECJ0EB1E102K Т C762 4030017430 S.CERAMIC ECJ0EC1H101J Т C764 4030017460 S.CERAMIC ECJ0EB1E102K Т C765 4030017620 S.CERAMIC ECJ0EC1H100C Т C766 4030016790 S CFRAMIC ECJ0EB1C103K Т C767 4030011810 S CFRAMIC C1608 JB 1A 224K-T В C768 4030017730 S.CERAMIC ECJ0EB1E471K Т C769 4030017730 S.CERAMIC ECJ0EB1E471K Т C770 4030016790 S.CERAMIC ECJ0EB1C103K Т Т C771 4030016790 S CFRAMIC FCJ0FB1C103K C772 4030017460 S CFRAMIC ECJ0EB1E102K Т C773 4030016930 S.CERAMIC ECJ0EB1A104K Т

[RF UNIT]

[RF UNIT]				
REF NO.	ORDER NO.		DESCRIPTION	М.
C788	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C789	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C790 C791	4030016790 4550006200	S.CERAMIC S.TANTALUM	ECJ0EB1C103K ECST0JY106R	B B
C792	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C793	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C794	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C795 C796	4030016930	S.CERAMIC S.CERAMIC	ECJ0EB1A104K C1608 JB 1A 224K-T	B B
C796	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C807	4030017460	S.CERAMIC	ECJ0EB1E102K	Ť
C808	4030017460	S.CERAMIC	ECJ0EB1E102K	Т
C809	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C811 C812	4030017460 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	T
C814	4030017460	S.CERAMIC	ECJ0EB1E102K ECJ0EC1H020B	'
C815	4030017460	S.CERAMIC	ECJ0EB1E102K	Ť
C816	4030017460	S.CERAMIC	ECJ0EB1E102K	Т
C817	4030017590	S.CERAMIC	ECJ0EC1H070C	Т
C827	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C828 C832	4030017460 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	B B
C833	4030017400	S.CERAMIC	ECJ0EC1H010B	В
C834	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C835	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C836	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C837	4030017430	S.CERAMIC	ECJ0EC1H101J	В
C838 C839	4030017430 4030017460	S.CERAMIC S.CERAMIC	ECJ0EC1H101J ECJ0EB1E102K	B B
C840	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C841	4030017390	S.CERAMIC	ECJ0EC1H180J	В
C842	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C843	4030017600	S.CERAMIC	ECJ0EC1H080C	В
C844	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C845 C846	4030017600	S.CERAMIC S.CERAMIC	ECJ0EC1H080C ECJ0EB1E102K	T T
C847	4030017460	S.CERAMIC	ECJ0EB1E102K	∣÷ I
C848	4030017360	S.CERAMIC	ECJ0EC1H030B	T
C849	4030017430	S.CERAMIC	ECJ0EC1H101J	Т
C850	4030017430	S.CERAMIC	ECJ0EC1H101J	T
C851	4030017650	S.CERAMIC	ECJ0EC1H270J	T
C852 C853	4030017650 4030017640	S.CERAMIC S.CERAMIC	ECJ0EC1H270J ECJ0EC1H150J	T
C854	4030017640	S.CERAMIC	ECJ0EC1H1903 ECJ0EC1H090C	'
C855	4030017420	S.CERAMIC	ECJ0EC1H470J	Ť
C856	4030017590	S.CERAMIC	ECJ0EC1H070C	Т
C857	4030017430	S.CERAMIC	ECJ0EC1H101J	Т
C858	4030017630	S.CERAMIC	ECJ0EC1H120J	T
C859 C860	4030017460 4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	T
C861	4030017460	S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	
C862	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C863	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C864	4030016930	S.CERAMIC	ECJ0EB1A104K	T
C865	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C866 C867	4030017460 4030016790	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1C103K	T
C868	4030017460	S.CERAMIC	ECJ0EB1C103K ECJ0EB1E102K	
C869	4030016790	S.CERAMIC	ECJ0EB1C103K	†
C870	4030016790	S.CERAMIC	ECJ0EB1C103K	Т
C871	4030016790	S.CERAMIC	ECJ0EB1C103K	T
C872	4030016930	S.CERAMIC S.CERAMIC	ECJ0EB1A104K ECJ0EC1H221J	B T
C873 C874	4030017440 4030017390	S.CERAMIC S.CERAMIC	ECJ0EC1H221J ECJ0EC1H180J	
C875	4030017530	S.CERAMIC	ECJ0EC1H680J	'
C876	4030017500	S.CERAMIC	ECJ0EC1H560J	Ť
C877	4030016790	S.CERAMIC	ECJ0EB1C103K	Т
C878	4030016790	S.CERAMIC	ECJ0EB1C103K	T
C879 C880	4030017620 4030017460	S.CERAMIC S.CERAMIC	ECJ0EC1H100C ECJ0EB1E102K	T B
C880	4030017460	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1E102K	В
C882	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C884	4030017460	S.CERAMIC	ECJ0EB1E102K	В
C885	4030017460	S.CERAMIC	ECJ0EB1E102K	Т
C886	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C887	4030017460	S.CERAMIC	ECJ0EB1E102K	T
C888 C889	4030017460 4030016930	S.CERAMIC S.CERAMIC	ECJ0EB1E102K ECJ0EB1A104K	
C890	4030016930	S.CERAMIC S.CERAMIC	ECJ0EB1A104K ECJ0EB1A104K	
C891	4030016790	S.CERAMIC	ECJ0EB1C103K	В
C893	4030016790	S.CERAMIC	ECJ0EB1C103K	Т

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

ECJ0EB1C103K

ECJ0EB1C103K

ECJ0EB1C103K

ECJ0EB1C103K

FCJ0FB1A104K

ECJ0EC1H221J

ECJ0EC1H221J

ECJ0EB1A104K

ECJOER1C103K

FCJ0FC1H150J

ECJ0EC1H151J

C1608 JB 1A 224K-T

FCST0JY106B

S.=Surface mount

Т

В

B T

Т

В

B T

Т

Т

Т

В

В

[RF U	NIT]			
REF NO.	ORDER NO.		DESCRIPTION	М.
C894 C895 C896 C897 C898 C899 C900 C901 C902 C903 C904 C905 C906 C907 C908 C910 C911 C912 C913 C914 C916 C917 C918 C919 C919 C910 C911 C912 C913 C914 C916 C917 C918 C919 C920 C921 C922	4030016790 4030016790 4030017730 4030017460 4030017460 4030017460 4030017460 4030017420 4030017420 4030017420 4030017420 4030017420 4030017420 4030017420 4030017420 4030017420 4030017460 4030017460 4030017460 4030017460 4030017460 4030017460 4030017460 4030017460 4030017460 4030017460 4030017460 4030017460	S.CERAMIC	ECJ0EB1C103K ECJ0EB1E471K ECJ0EB1E103K ECJ0EB1E102K ECJ0EB1E102K ECJ0EB1E102K ECJ0EB1E102K ECJ0EB1E102K ECJ0EB1E102K ECJ0EC1H470J ECST0GX107R ECST0GX107R ECST0GX107R ECST0GX107R ECJ0EB1E102K	T T T B B B B T T T T T T T B B B B T T T T B B B B T T T T B B T B T B T T T B B T B
J1	6510022160	S.CONNECTOR		T
W1 W2	7120000470 7120000470	JUMPER JUMPER	ERD\$2T0 ERD\$2T0	
EP1 EP2	0910058144	PCB ANTENNA	B 6078D KY-058-006-2 <kai></kai>	

6-2 BC-156

[TANSHI BOARD]

REF NO.	ORDER NO.		DESCRIPTION	М.
D1	1710000050	DIODE	1SS53	Т
R1 R2		RESISTOR THERMISTOR	2SG 0.15 ERT-D2FHL 103S	T
C1	4010007620	CERAMIC	DSXE65SJ YF 473Z	Т
RL1	6330001630	RELAY	A-5W-K	Т
J1	6510003570	CONNECTOR	S09B-EH-S	Т
EP1 EP2	0910052472 9001602001	-	B 5425B IRRAX 0.7 (d) L=10 mm	

[MAIN UNIT]

	[MAIN UNIT]			
REF NO.	ORDER NO.		DESCRIPTION	М.
IC1 IC2	1110005090 1110006250	S.IC S.IC	MM1433EVBE NJM2360AM-TE3	T
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8	152000600 1590001870 1590003450 1590001870 1590001870 1590001870 1550000020 1590002310	S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR S.FET S.TRANSISTOR	DTA114EE TL UNR9214J-(TX) DTA114EE TL DTA114EE TL DTA114EE TL 2SJ377 (TE16R)	T T T T T
D1 D2 D3 D4 D5 D6	179000680 179000680 1790001250 1790000850 1750000120 1790000680	S.DIODE S.DIODE S.DIODE S.DIODE S.DIODE S.DIODE	SB20-03P-TD SB20-03P-TD MA2S111-(TX) MA132WK (TX) DWA010-TE SB20-03P-TD	T T T T
L1	6190001150	COIL	HK-08S050-2010	Т
R2 R3 R5 R6 R9 R11 R12 R14 R15 R16 R17 R18 R19 R21 R22 R23	7030003340 7030003410 703000521 7030005501 7030005691 7030006601 7030003680 7030003640 7030003420 7030003440 7030003440 7030003410 7030003410 7030003410	S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR	ERJ3GEYJ 151 V (150 Ω) ERJ3GEYJ 561 V (560 Ω) ERA3YED 103V ERA3YED 124V (120 $\mathrm{k}\Omega$) ERJ3GEYJ 224 V (220 $\mathrm{k}\Omega$) ERJ3GEYJ 224 V (220 $\mathrm{k}\Omega$) ERJ3GEYJ 104 V (100 $\mathrm{k}\Omega$) ERJ3GEYJ 104 V (150 $\mathrm{k}\Omega$) ERJ3GEYJ 154 V (150 $\mathrm{k}\Omega$) ERJ3GEYJ 681 V (680 Ω) ERJ3GEYJ 102 V (1 $\mathrm{k}\Omega$) ERJ3GEYJ 102 V (1 $\mathrm{k}\Omega$) ERJ3GEYJ 561 V (560 Ω) ERJ3GEYJ 561 V (560 Ω) ERJ3GEYJ 563 V (56 $\mathrm{k}\Omega$) ERJ3GEYJ 100 V (10 Ω)	T T T T T T T T T T T T T T T T T T T
C1 C2 C3 C4 C5 C6 C7 C8 C9	4030009660 4510004510 4030006850 4510004590 4030006900 4030011600 4030009660 4510006760 4030009660	S.CERAMIC ELECTROLYTIC S.CERAMIC ELECTROLYTIC S.CERAMIC S.CERAMIC S.CERAMIC S.CERAMIC S.CERAMIC ELECTROLYTIC S.CERAMIC	C1608 JB 1H 471K-T 16 MV 470 HC C1608 JB 1H 103K-T C1608 JB 1E 104K-T C1608 JF 1C 224Z-T	T T T T T T

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

[MAIN UNIT]

[MAIN	I UNIT]			
REF NO.	ORDER NO.		DESCRIPTION	М.
C10 C12 C13 C14 C15 C16 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C34 C35 C36	403006860 4510004590 403006860 403006860 403006860 4030011600 4030011600 4030011600 4030016860 4030011600 403006860 4030011600 403006860 4030011600 403006860 4030011600 4030016860 4030011600 4030016860 4030011600 4030016860 4030011600 403006860 4030011600 403006860 4030011600 403006860 403001600 403006860 403001600	S.CERAMIC S.CERAMIC S.CERAMIC S.TANTALUM S.CERAMIC	C1608 JB 1H 102K-T 16 MV 470 HC C1608 JB 1H 102K-T C1608 JB 1H 102K-T C1608 JB 1H 102K-T C1608 JB 1H 102K-T TEESVA 1V 154M8L C1608 JB 1E 104K-T C1608 JB 1E 104K-T C1608 JB 1H 102K-T ECEV1CA470SP C1608 JB 1E 104K-T C1608 JB 1H 102K-T C1608 JB 1H 104K-T C1608 JB 1H 102K-T	T T T T T T T T T T T T T T T T T T T
J1	6450000410	CONNECTOR	HEC0470-01-630	Т
F1 F2 F3	5210000040 5220000020 5220000020	HOLDER	FGB 2A (FGB0 125V) S-N5051 S-N5051	T T T
DS1	5040002150	LED	VRPG3349S-734	Т
WS1	8600036620	OTHER	EX2308 P01*J04MA	
EP1	0910052462	PUB	B 5373B	

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

SECTION 7 MECHANICAL PARTS AND DISASSEMBLY

[CHASSIS PARTS]

[envector varie]				
REF. NO.	ORDER NO.	DESCRIPTION	QTY.	
J1	6510024470	Connector BNC-R168	1	
W ₁	8900009640	Cable OPC-963	1	
** '	0300003040	Cable of 0-900	'	
MP1	8210020700	2699 front panel assembly	1	
MP2	8210020710	2699 rear panel assembly	1	
MP3	8110008140	2699 battery cover	1	
MP4	8310061220	2699 lock plate	1	
MP5	8930062400	2699 jack cap	1	
MP6	8930062410	2699 USB cap	1	
MP7	8610011940	Knob N320	2	
MP8	8930062440	2699 detection button	1	
MP9	8930062450	2699 button	1	
MP11	8930062470	2699 TOP PLATE	1	
MP12	8930062500	2699 A-terminal Y713	1	
MP13	8930062510	2699 B-terminal Y714	1	
MP14	8930062520	2699 C-terminal Y715		
MP15	8930051630	2304 sheet		
MP16	8930050560	2304 C1-terminal		
MP17	8930050570	2304 C2-terminal		
MP18	8930051390	2304 shaft		
MP19	8830000570	knut (A) FX643	2	
MP20	8810005700	Screw PH No.0 M2 × 4 black	1	
MP21	8810009220	Screw PH B0 M2 × 8 ZK (BT)	2	
MP22	8810008750	Screw PH BT M2 × 15 ZK	4	
MP23	8930051851	891 terminal rubber (B)-1	3	
MP24	8610007510	Knob spring No.7800 [SEA], [EXP], [CAN] only	2	
MP26	8810008640	Screw FH BT No.0 M2 × 4 NI-ZU	3	
MP27	8810008640	Screw FH BT No.0 M2 × 4 NI-ZU	4	
MP28	8810008640	Screw FH BT No.0 M2 × 4 NI-ZU	2	
MP29	8310061230	2699 window plate	1	
MP30	8930062390	2699 window sheet		
MP31	8930062420	2699 lens		
MP32	8930062430	2699 keyboard		
MP34	8810008640	Screw FH BT No.0 M2 × 4 NI-ZU		
MP35	8810005700	Screw FH No.0 M2 × 4 black	1	
MP36	8930063290	nsulation sheet (HW)		
SP 1	2510000960	speaker K036NA500-26	1	

[RF UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
EP 2	3310003010	Antenna KY-058-006-2 <kai></kai>	1
MP1	8930063280	Double side tape (AP)	1

[1STAVCO BOARD]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8510016210	2699 A-VCO case Y723	1

[1STBVCO BOARD]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8510016220	2699 B-VCO case Y724	

[2NDCVCO BOARD]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8510016230	2699 C-VCO case	1

[2NDDVCO BOARD]

REF. NO	ORDER NO.	DESCRIPTION	QTY.
MP1	8510016230	2699 C-VCO case	1

[DOWNCONV BOARD]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8510016240	2699 conv case	
MP2	8930062490	2699 conv plate	1

[LOGIC UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
S24	2250000200	Encoder TP90N00E20-16F-1517	1
S25	2250000200	Encoder TP90N00E20-16F-1517	1
DS12	5030002690	LCD M3-0243TIY	
MP2	8930062480	2699 LCD holder	1
MP3	8930062530	2699 battery spring	2
MP4	8930062540	Sponge (HO)	1
MP5	8510016370	2699 LOGIC shield plate Y725	1

[REC UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8510016250	2699 A-REC case	1
MP2	8510016260	2699 B-REC case	1

Screw abbreviations

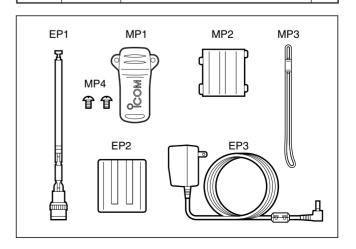
B0, BT: Self-tapping

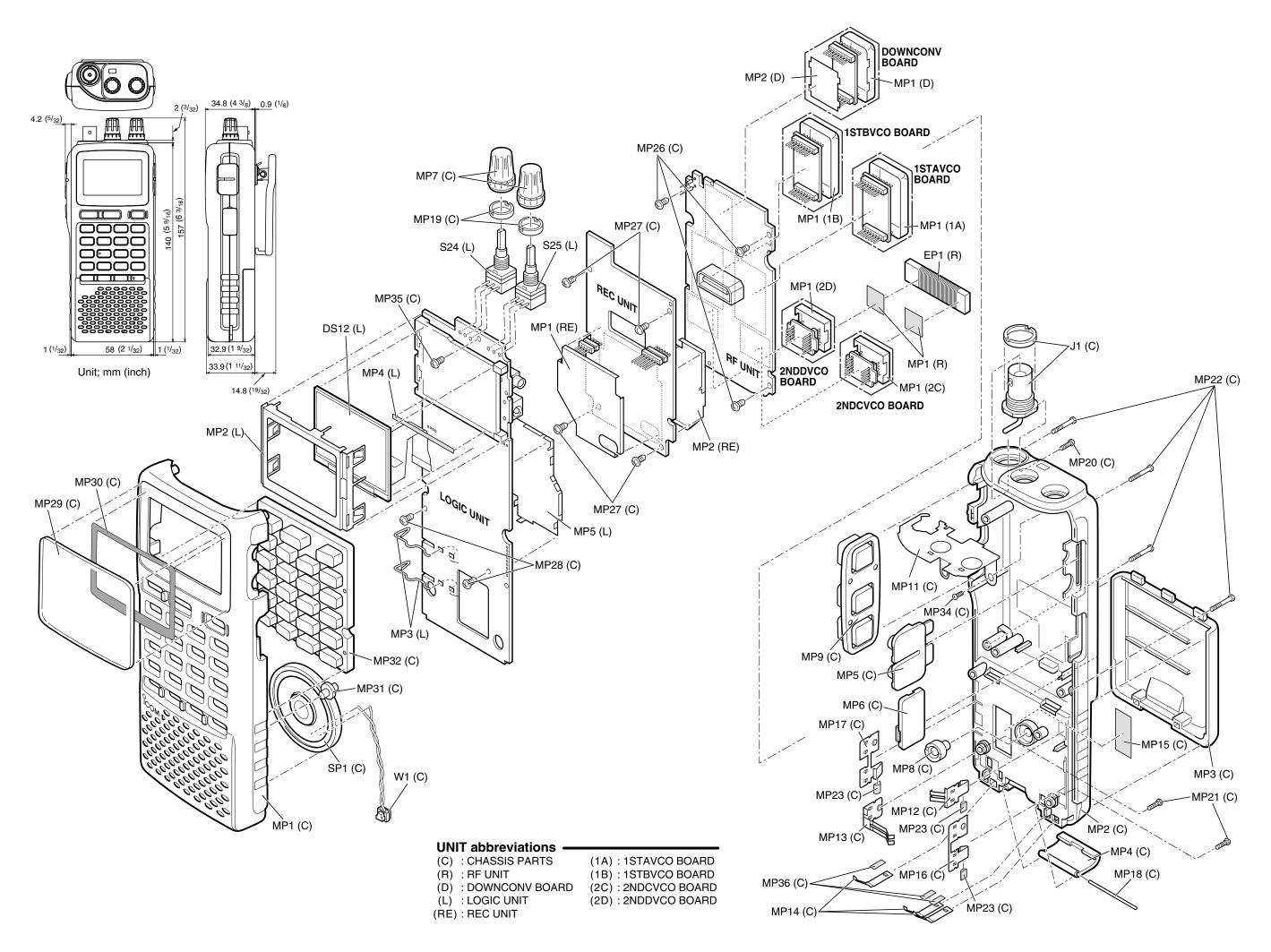
PH: Pan head, FH: Flat head,

NI-ZU: Nickel-Zinc ZK: Black

[ACCESSORIES]

REF. NO.	ORDER NO.	DESCRIPTION	
EP1	3310002670	Antenna FA-B04RE	
EP2	0800005460	Battery BP-206 ACC except [SEA]	1
EP3	0800006350	AC adapter BC-149A [USA], [EXP-01], [CAN] only	
	0800006360	AC adapter BC-149D [EUR], [FRA], [EXP-02] only	
MP1	8930061480	Clip MB-98 ACC (2742 clip assembly)	
MP2	8930050410	2304 spacer	
MP3	8010018080	Strap belt HK-009	1





SECTION 8 SEMI-CONDUCTOR INFORMATION

• TRANSISTOR AND FET'S

IC-R20

2SA1362-GR (Symbol: AEG)	2SA1586-GR (Symbol: SG)	2SA1588 GR (Symbol: ZG)	2SB1132 R (Symbol: BAR)	2SB1201-S-TL (Symbol: B1201)
B	В	BECO	C	C
2SC4116 GR (Symbol: LL)	2SC4117-BL (Symbol: CL)	2SC4226 R24 (Symbol: R24)	2SC4617 TLS (Symbol: BS)	2SC5006-T1 (Symbol: 24)
E C	В	B	В	В
2SC5008-T1 (Symbol: 24)	2SC5231C8-TL (Symbol: C8)	2SC5277D2-TL (Symbol: D2)	2SC5624VH-TL (Symbol: VH-)	2SJ144-Y (Symbol: VX)
B	BECC	B	C E B	S G G
2SK1069-4 (Symbol: FJ)	2SK880-GR (Symbol: XG)	FH102-TL (Symbol: 102)	HAT1023R-EL (Symbol: 1023)	UMD6N TR (Symbol: D6)
S G	s G	C2 B2 B1 C1 E1	D2	E1 C1 C1 B2 C2 E2
UNR9110J (Symbol: 6L)	UNR9111J (Symbol: 6A)	UNR9113J (Symbol: 6C)	UNR9115J (Symbol: 6E)	UNR921NJ (Symbol: EX)
B C	B	B	B C C	B C
UPA805T-T1 (Symbol: T82)	XP1110 (Symbol: AD)	XP1113 (Symbol: 7L)	XP1501-AB (Symbol: 5R)	XP4312 (Symbol: 7T)
C2 B2 B1 C1 E1	B1 C1 E B2 C2	B1 C1 C1 B2 C2	B1 C1 C2	E1 C1 B1 B2 C2 E2
XP4601 (Symbol: 5C)	XP6501-AB (Symbol: 5N)			
E2 C2 B2 B1 C1 E1	E1 C1 E2 B1 B2 C2			

BC-156

DC-130				
2SB1184 TL Q (Symbol: B1184)	2SJ377 (Symbol: 4L)	DTA114EE TL (Symbol: 14)	DTC114EE TL (Symbol: 24)	UNR9214J-(TX) (Symbol: 8D)
BECC		B C C	B C C	C

• DIODES

IC-R20

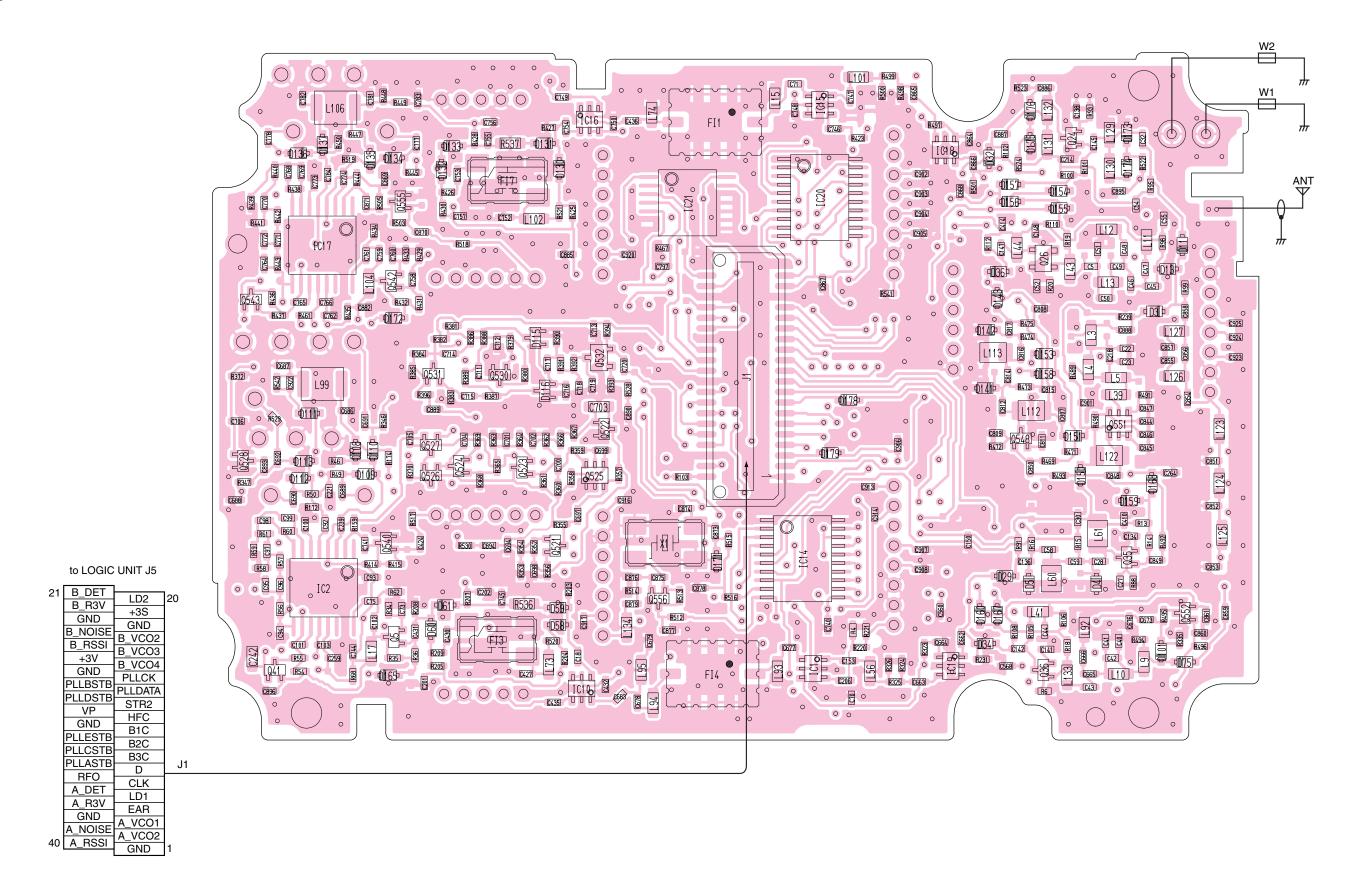
1SS372 (Symbol: N9)	1SV172 (Symbol: BE)	1SV245 (Symbol: T3)	1SV308 (Symbol: TX)	1SV314 (Symbol: V6)
C A	C A	A □ □ C □ C	C - A	C - A
DAP222 TL (Symbol: P)	HN2V02H-B (Symbol: 2V02H)	HVC350BTRF (Symbol: B0)	HVC375BTRF (Symbol: B8)	HVC376BTRF (Symbol: B9)
C1 A1	A H C C C C C C C C C	A □ □ C □ C	A [C	A
HVC417CTRU (Symbol: A8)	1SS400 (Symbol: A)	MA133 (Symbol: MP)	MA2S077 (Symbol: S)	MA2S111 (Symbol: A)
A □ □ □ C □ □ C	C 4 A	C C, A	C - 14 A	C 1 A
MA2S728 (Symbol: B)	MA8027-H (Symbol: 2^7)	RB876W TL (Symbol: 3X)	SB07-03C-TB (Symbol: J)	SVC347S/T-TL (Symbol: V1)
- 	C A	A C C, A	A C	A C

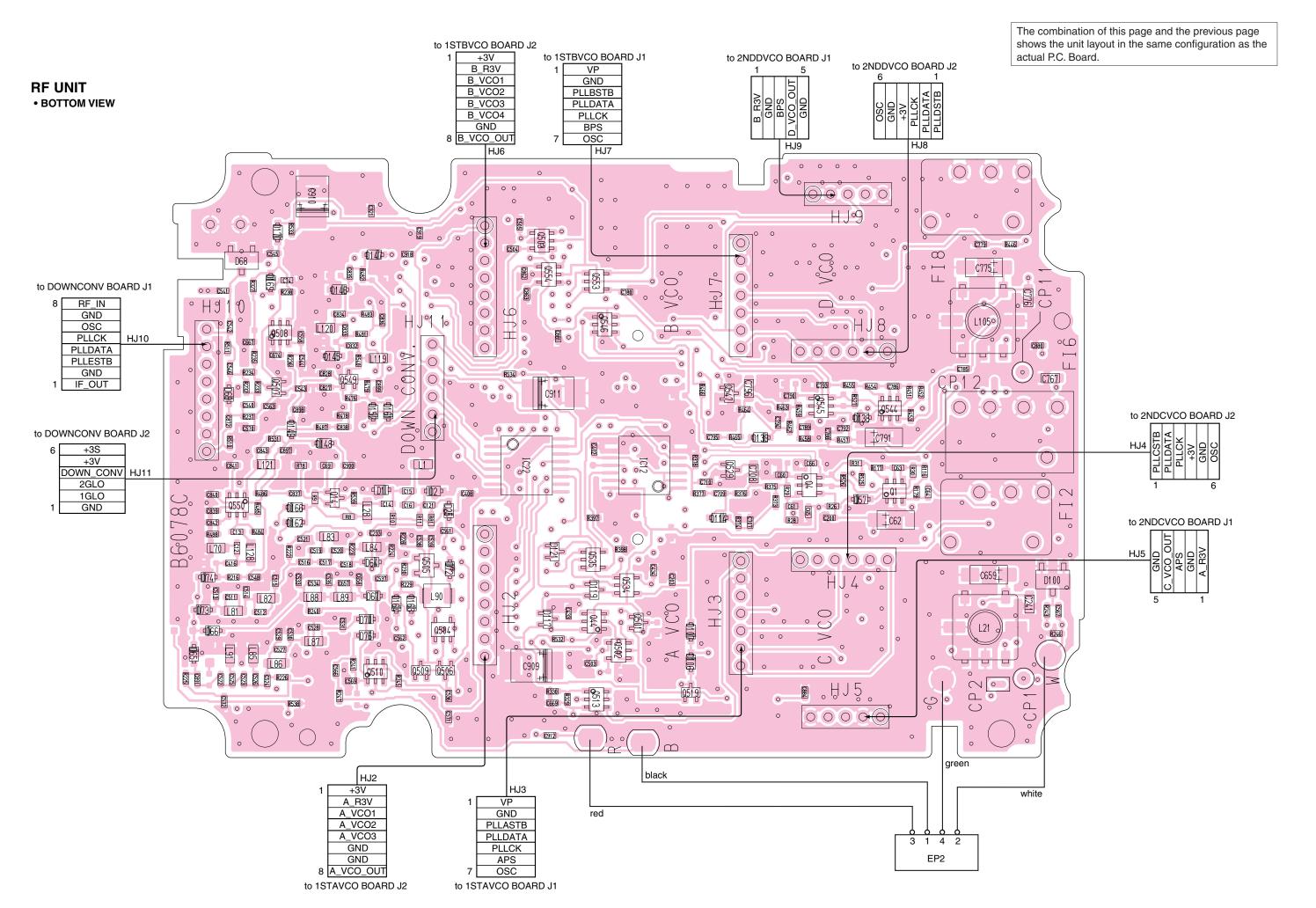
BC-156

1SS53	DWA010-TE	MA132WK(TX)	MA2S111-(TX)	SB20-03P-TD
(Symbol: White line)	(Symbol: W8)	(Symbol: MU)	(Symbol: A)	(Symbol: SC)
C white	A1 C1	A1 C	□	A1 C1

8 - 1

9-1 RF UNIT
•TOP VIEW

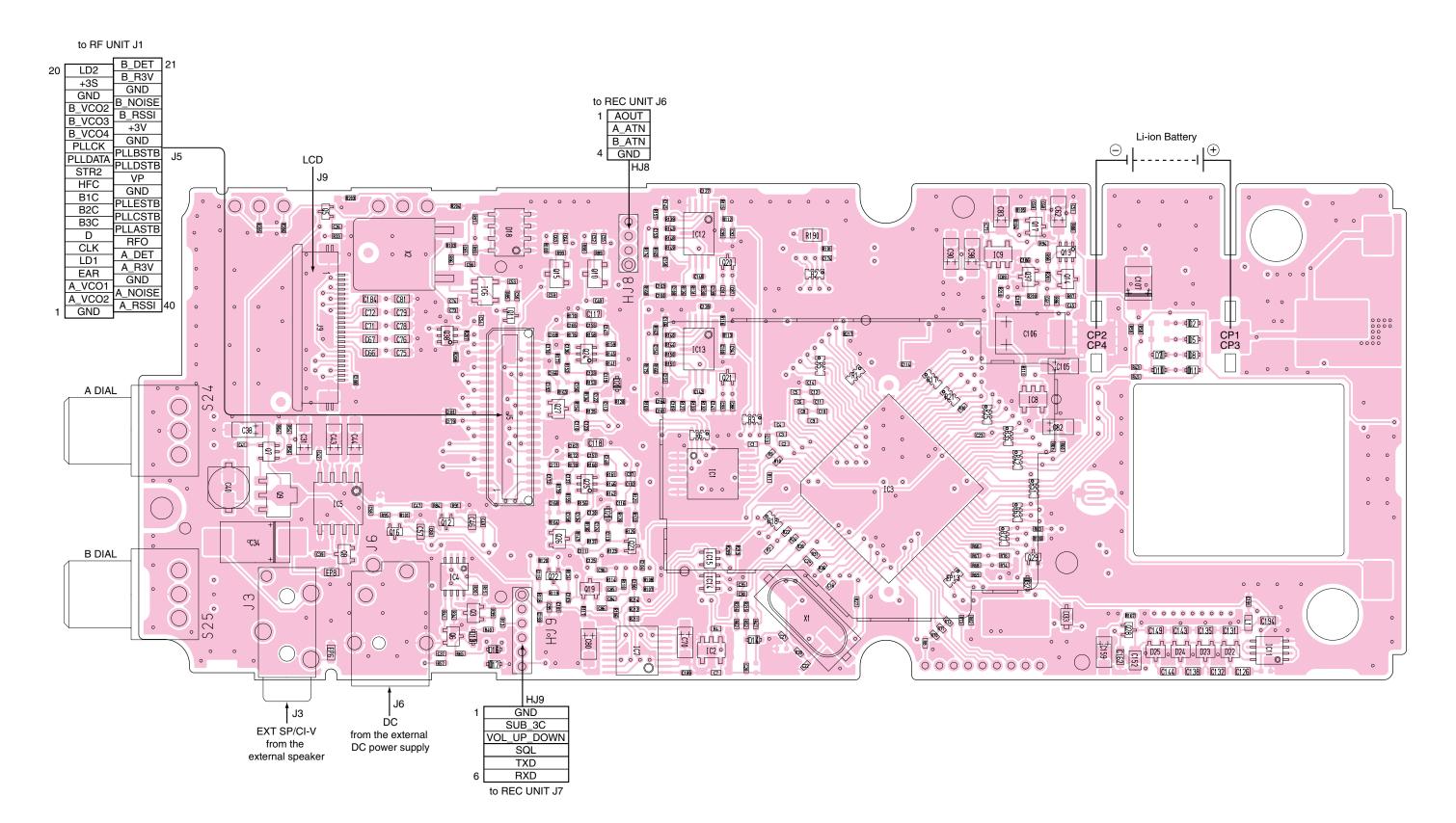




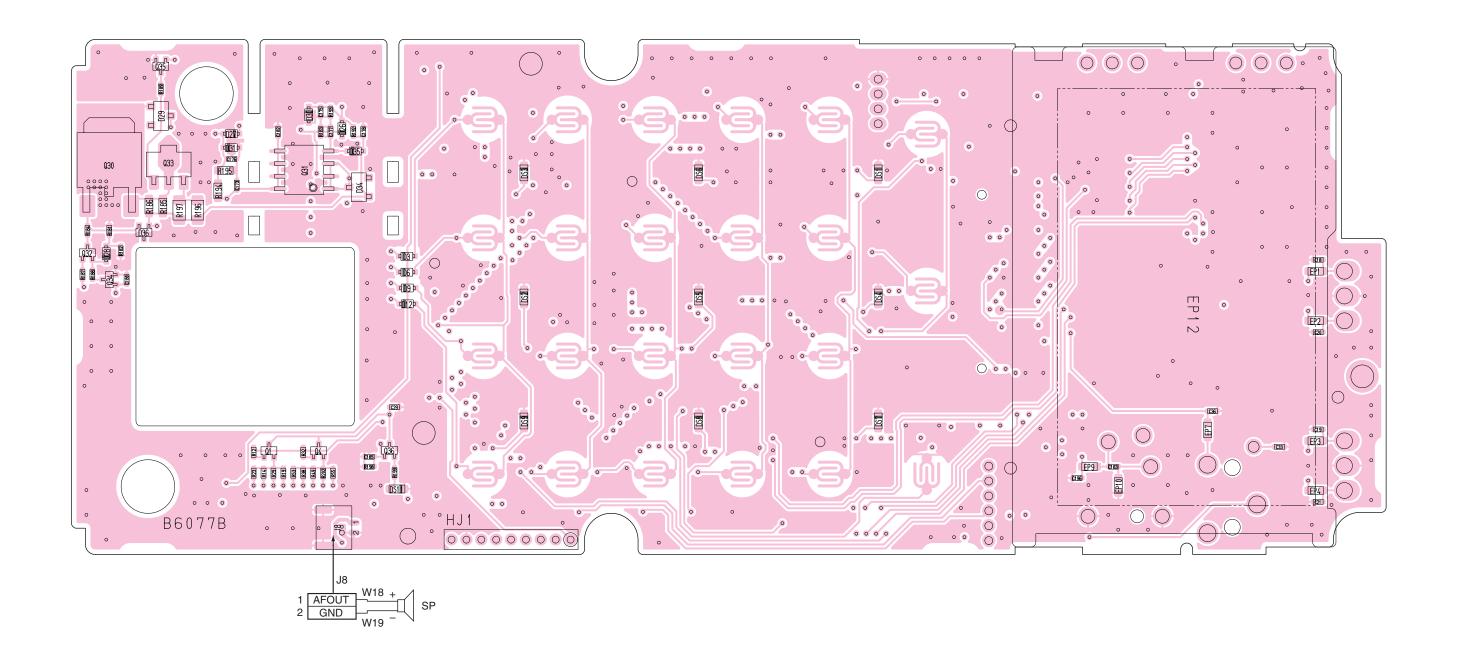
The combination of this page and the next page shows the unit layout in the same configuration as the actual P.C. Board.

9-2 LOGIC UNIT

• TOP VIEW

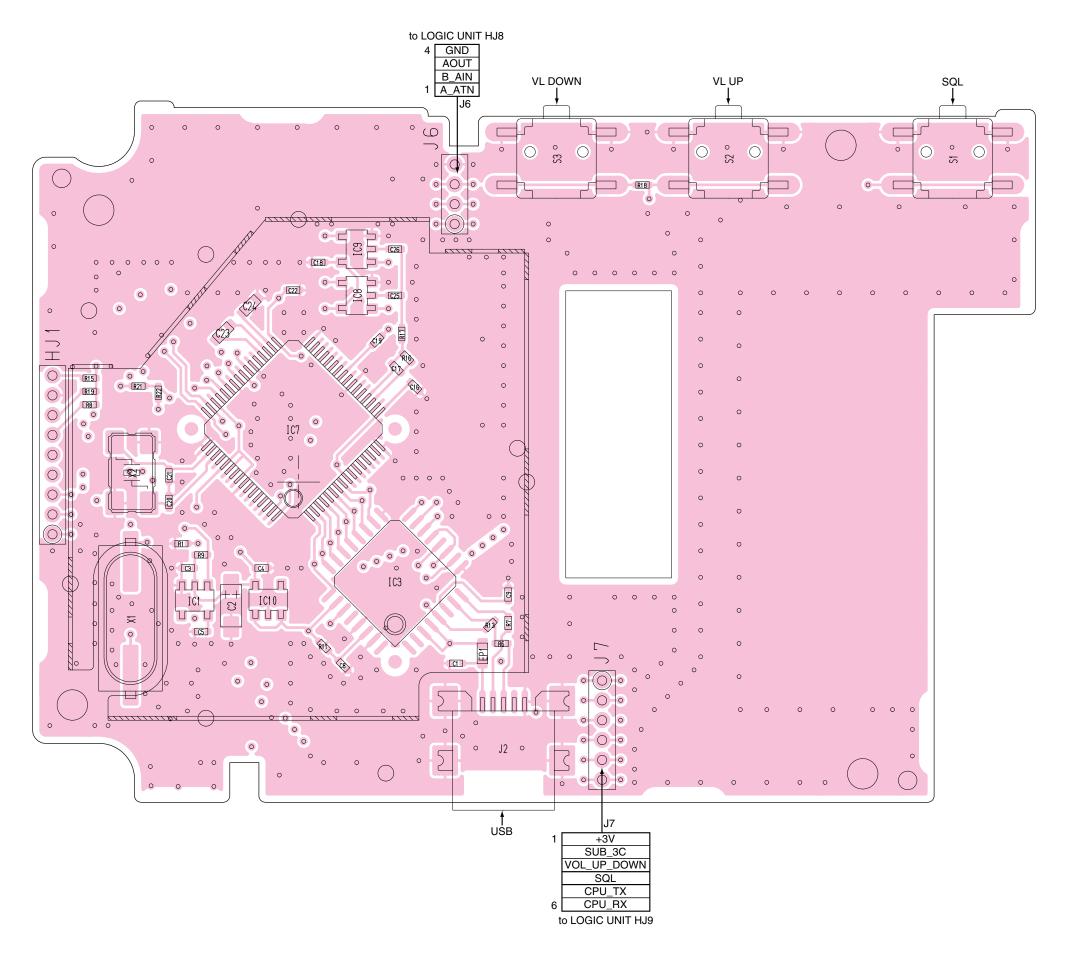


LOGIC UNIT • BOTTOM VIEW



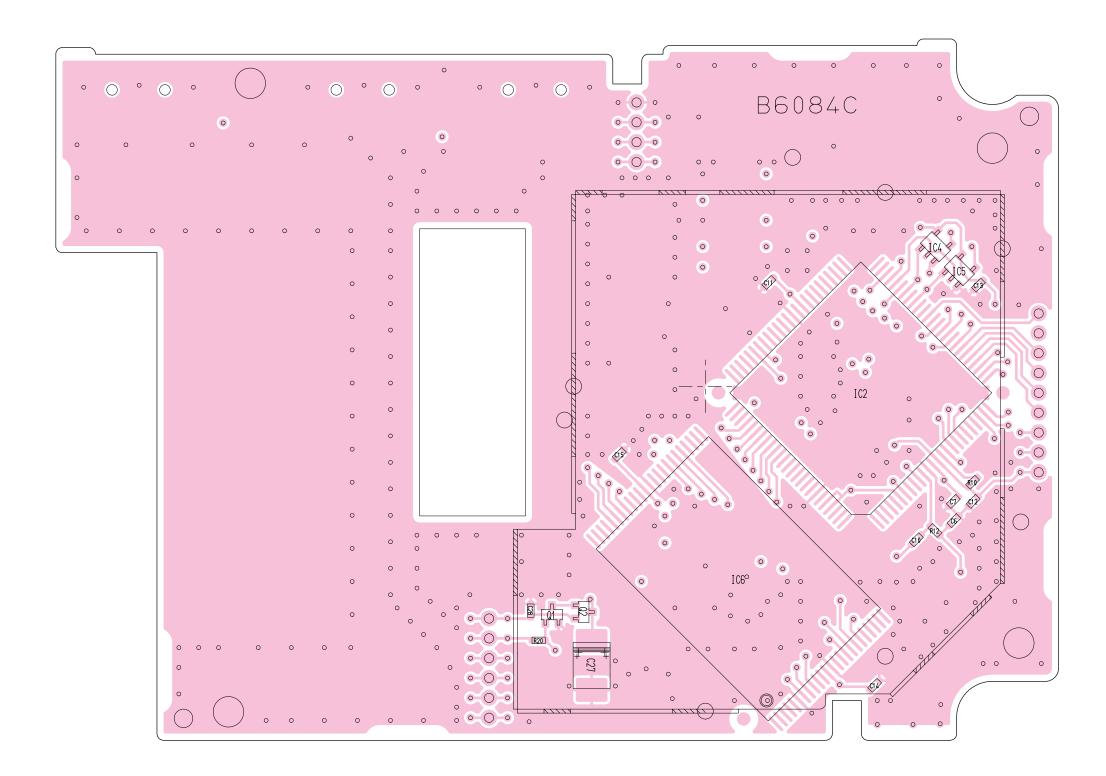
The combination of this page and the next page shows the unit layout in the same configuration as the actual P.C. Board.

9-3 REC UNIT
• TOP VIEW



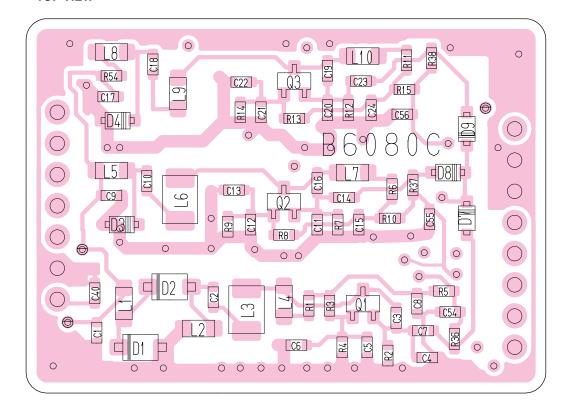
The combination of this page and the previous page shows the unit layout in the same configuration as the actual P.C. Board.

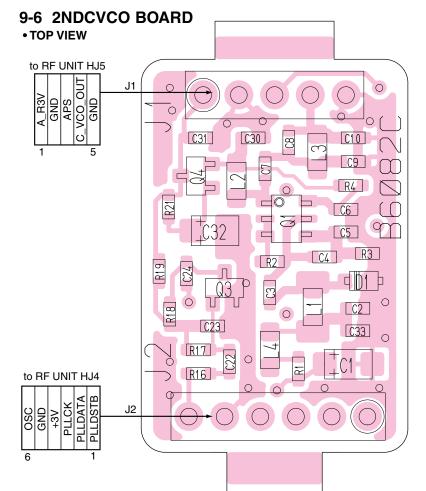
REC UNIT • BOTTOM VIEW



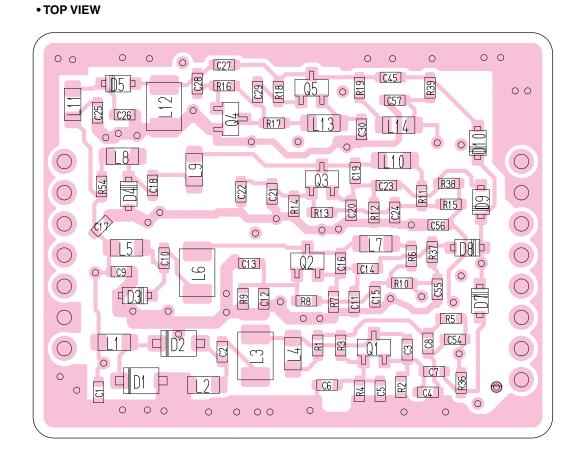
9-4 1STAVCO BOARD

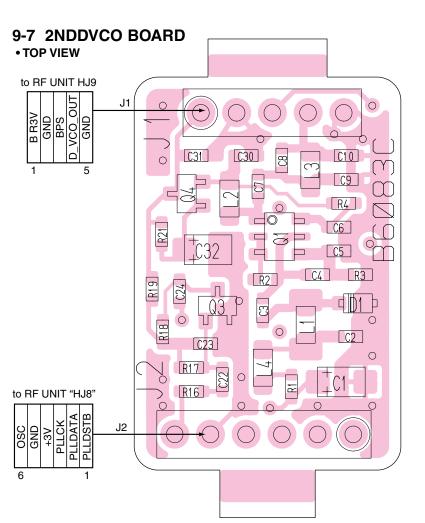
• TOP VIEW





9-5 1STBVCO BOARD

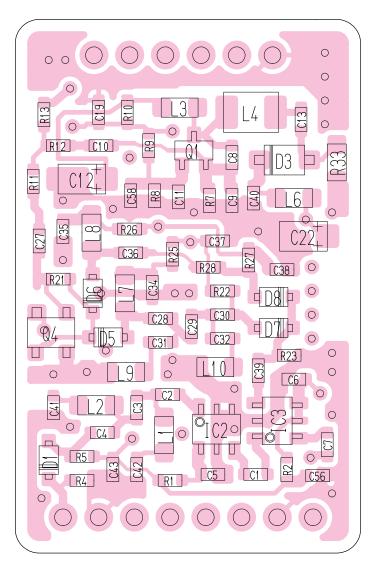




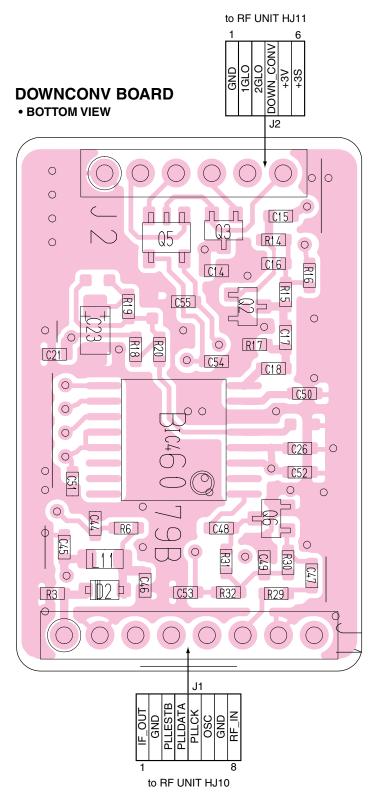
The combination of this page and the next page shows the unit layout in the same configuration as the actual P.C. Board.

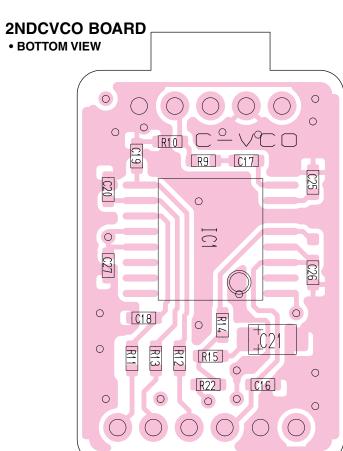
9-8 DOWNCONV BOARD

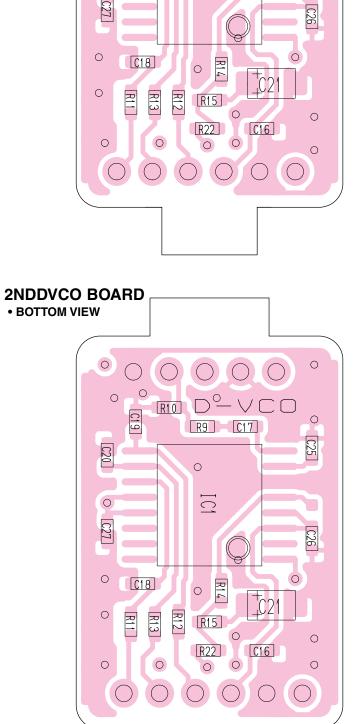
• TOP VIEW



The combination of this page and the previous page shows the unit layout in the same configuration as the actual P.C. Board.

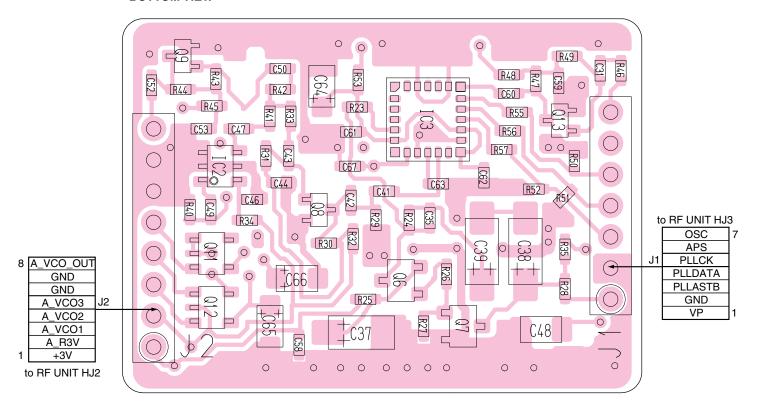






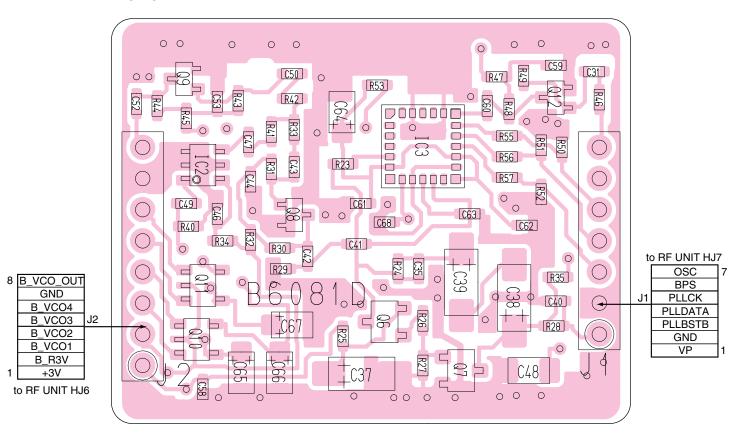
1STAVCO BOARD

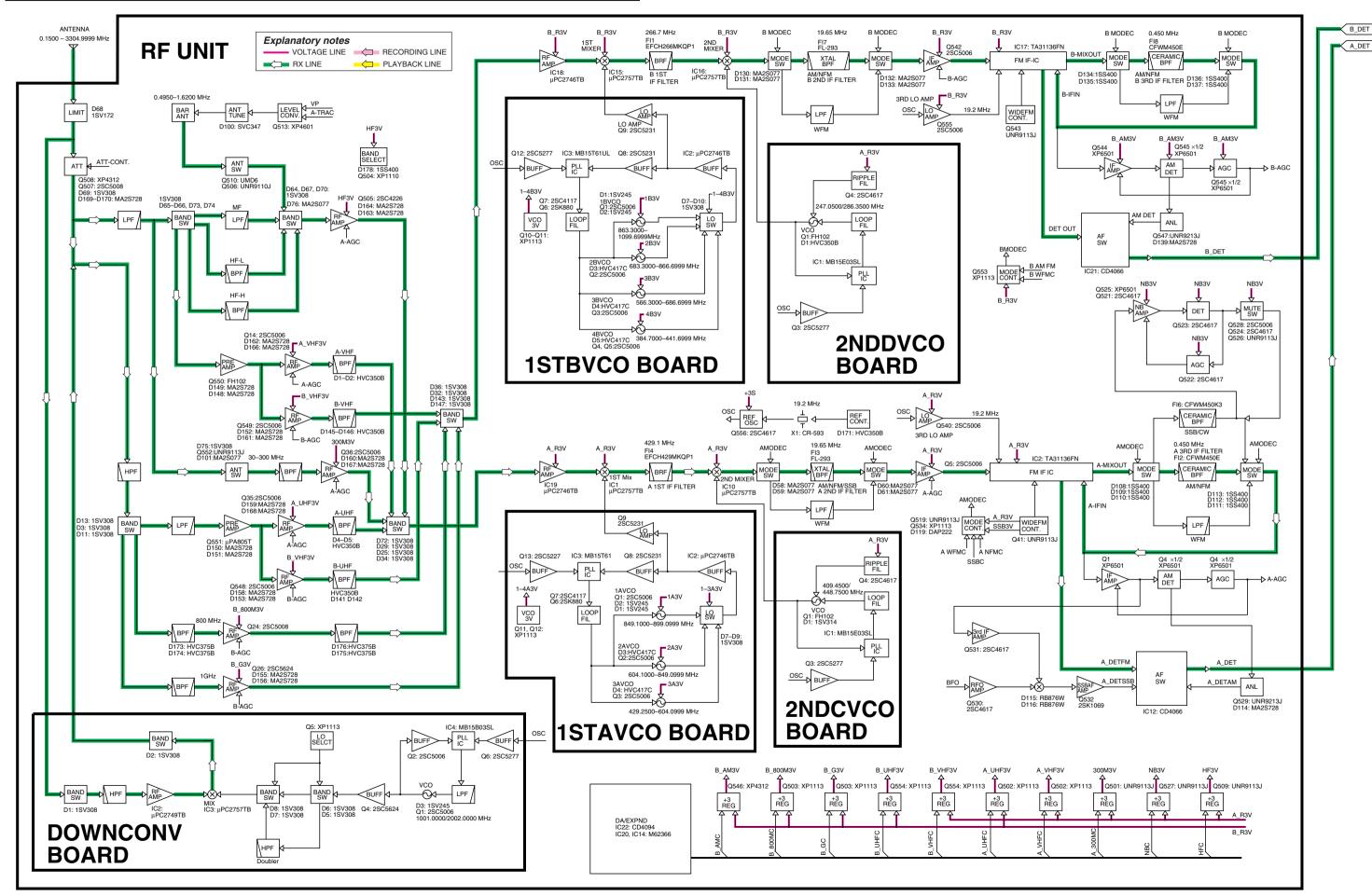
BOTTOM VIEW

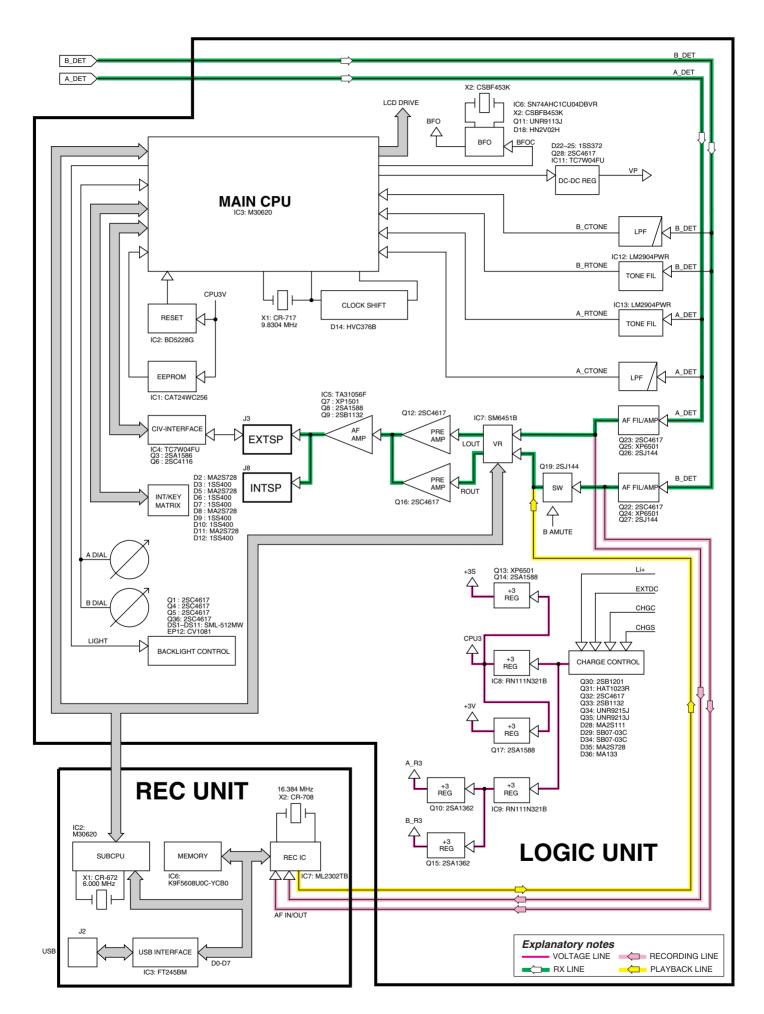


1STBVCO BOARD

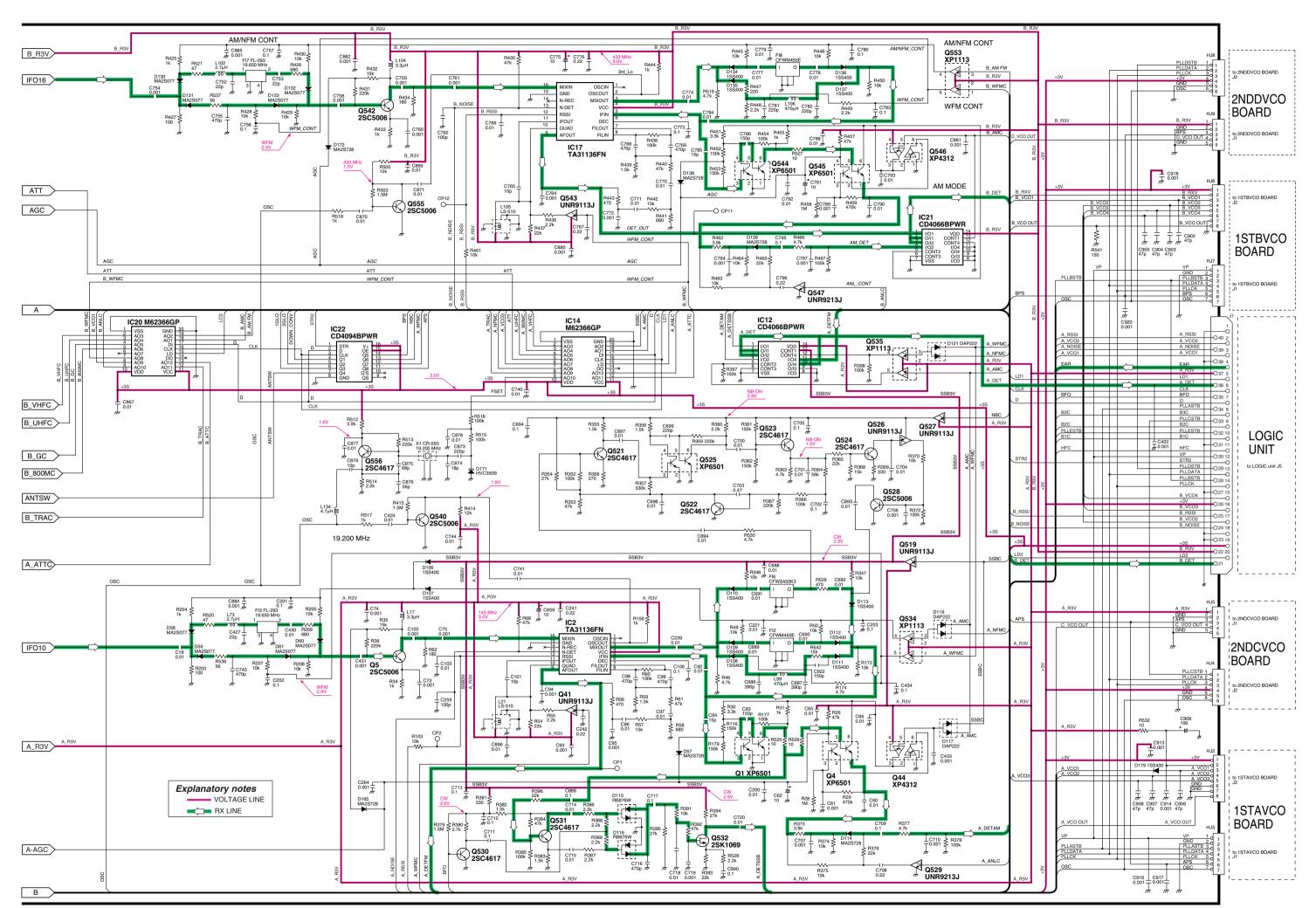
• BOTTOM VIEW

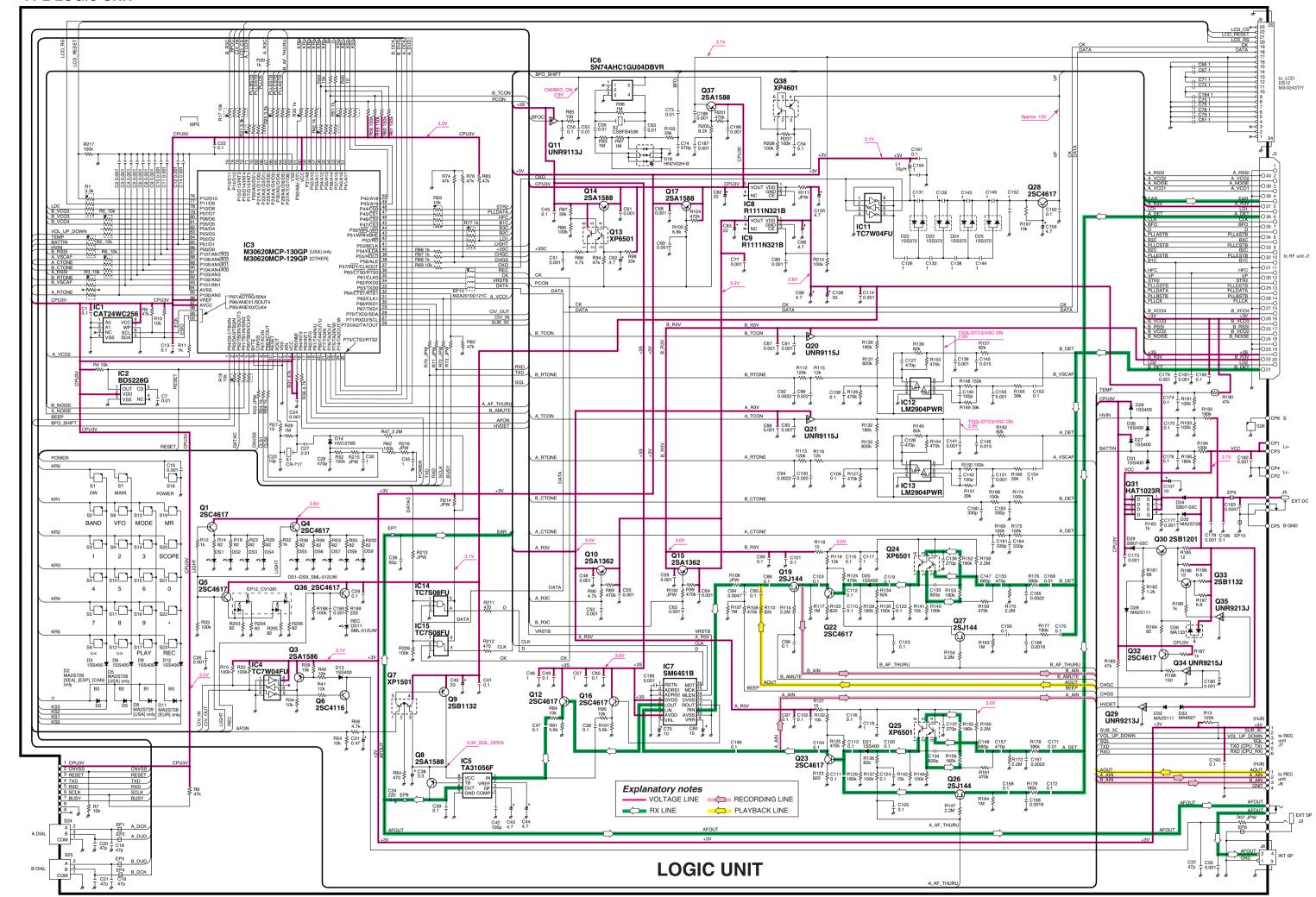


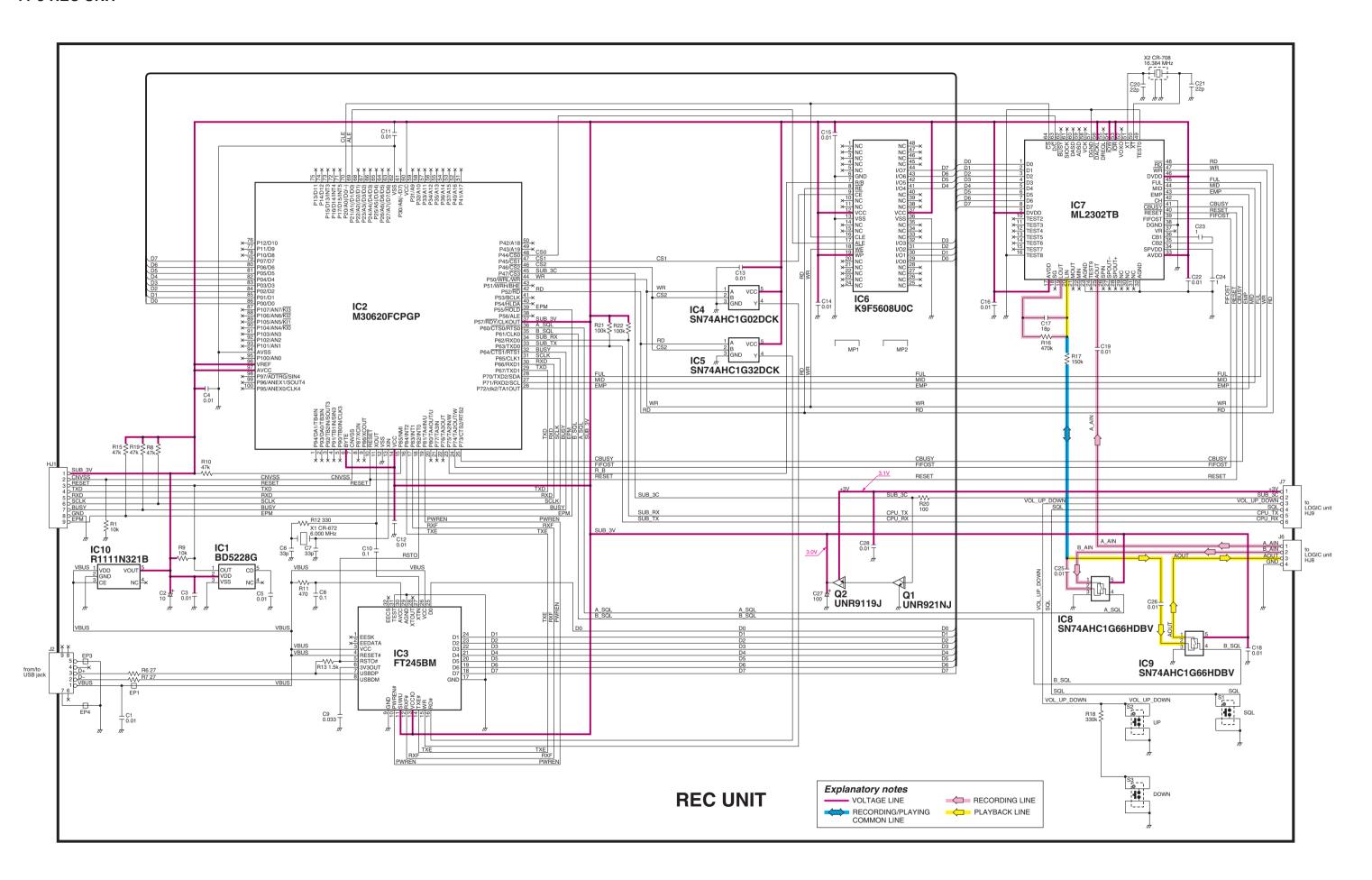




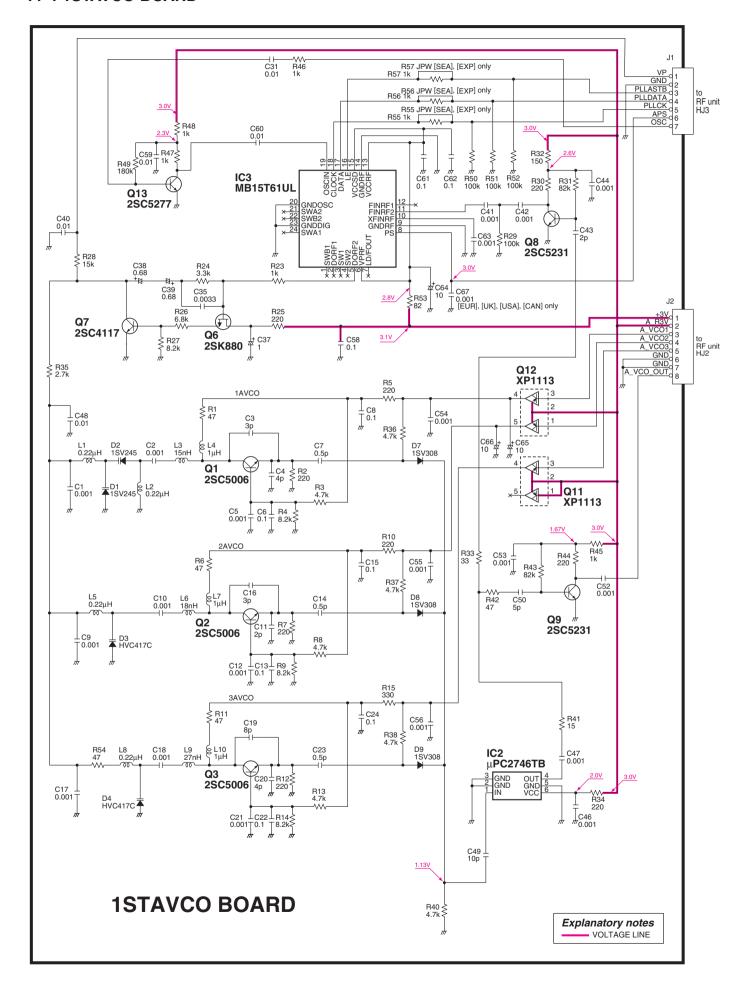
SECTION 11 VOLTAGE DIAGRAM B_R3V Explanatory notes IC15 μPC2757TB VOLTAGE LINE IC16 μPC2757TB RX LINE IFO16 **11-1 RF UNIT** C747 L101 0.001 6.8nH Q510 UMD6 R241 2.2k C568 47p T C571 T 0.001 D_VCO OUT B_VCO OUT B BAND RF IN Q506 UNR9110J W1 W2 C545 J ⊥ C667 T 0.01 Q509 C562 UNR9113J C562 ATT C570 T 0.001 Q508 XP4312 AGC ₹ R230 10k R237 2.7k ≸ Q505 2SC4226 C921 R533 C527 C528 47p 10p T C529 C530 HF L C531 10p 150p 270p HF L C531 R228 C538 C538 T L C558 C544 L R501 S C866 4.7k S 0.001 IC18 μPC2746TB BAR ANTENNA .4950 – 1.6200 MHz B BAND RF AMP C516 220p C519 T 5 MHz 2.9V HF H R224 3.3k R223 ≨ ₹ R538 JPW Α A_300MC C514 Q504 C561 C561 C561 XP1110 "" " Q502 XP1113 C416 VHF PRE-AMP L70 0.10μH C853 15p Q554 XP1113 -⊥ C69 T 0.001 B_VHFC A-BAND VHF C548 0.001 C863 0.001 B_UHFC C900 0.001 30 – 300 MHz B_GC B_800MC C505 0.001 C860 I ANTSW Q552 UNR9113J R323 220 C836 T 0.001 B-BAND VHF Q513 XP4601 3 2 1 A_TRAC B_TRAC B_TRAC B_VHF3\ C855 47p AGC R329 100k ☐ C676 ☐ 22p A_ATTC A_ATTC A_ATTC A_ATTC IC19 μPC2746TB ⊥ C669 ⊤ 0.001 EAR ANTENNA 0.1500 – 3304.9999 MH Q35 2SC5006 15 C30 R16 7k T0.001 47k C59 C58 2p 0.001 UHF PRE-AMP A BAND RF AMP 0.001 IFO10 C410 I A-BAND UHF C150 T 0.001 R511 2.2k W R239 2.2k C901 上 0.001 加 A_ATTC AGC B_TRAC B 800M3V 3 L56 6.8nH C153 to DOWNCO BOARD J1 A_R3V 0.001 C809 IC1 μPC2757TB C435 0.001 DOWN Q26 2SC5624_ C807 1 0.001 1 C808 T 0.001 CONV B BAND UHF **BOARD** FR221 E L93 22nH C679 T C868 I C148 T C414 T C55 0.001 DOWN_CONV B_TRAC A-AGC



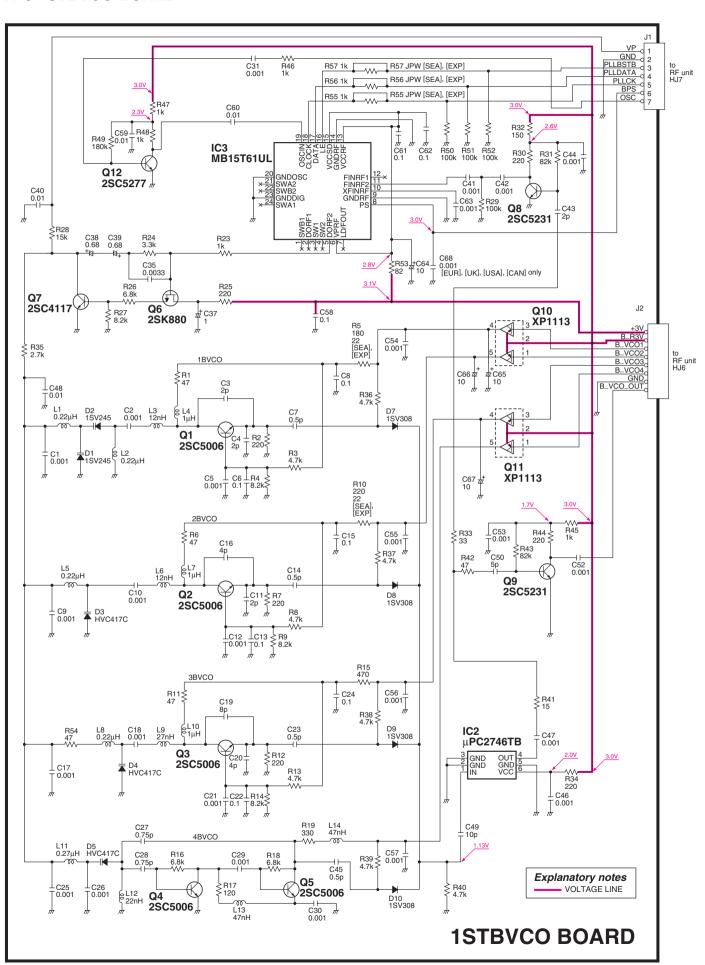




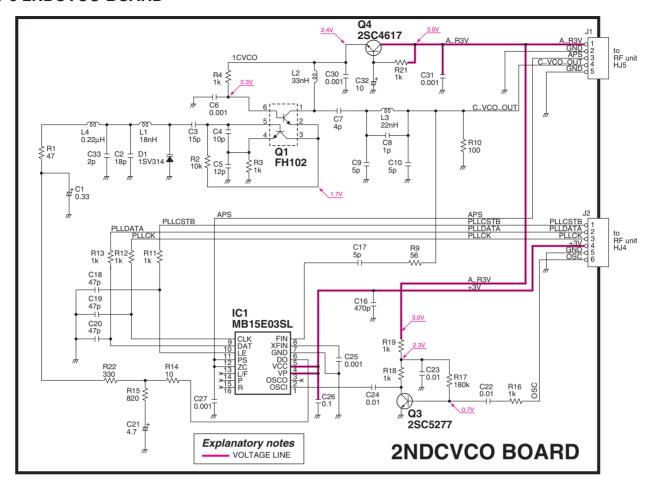
11-4 1STAVCO BOARD



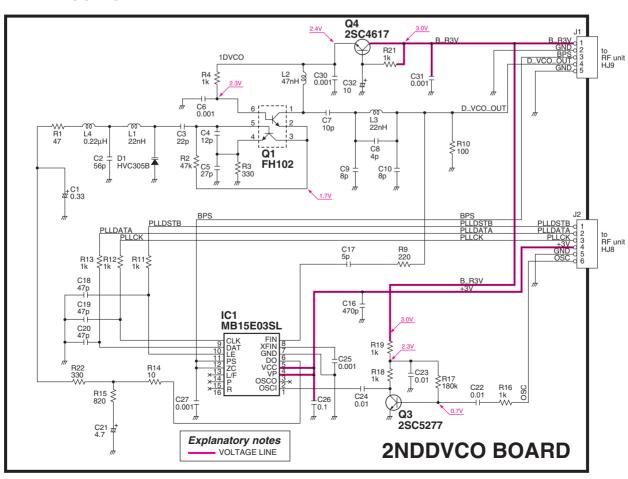
11-5 1STBVCO BOARD



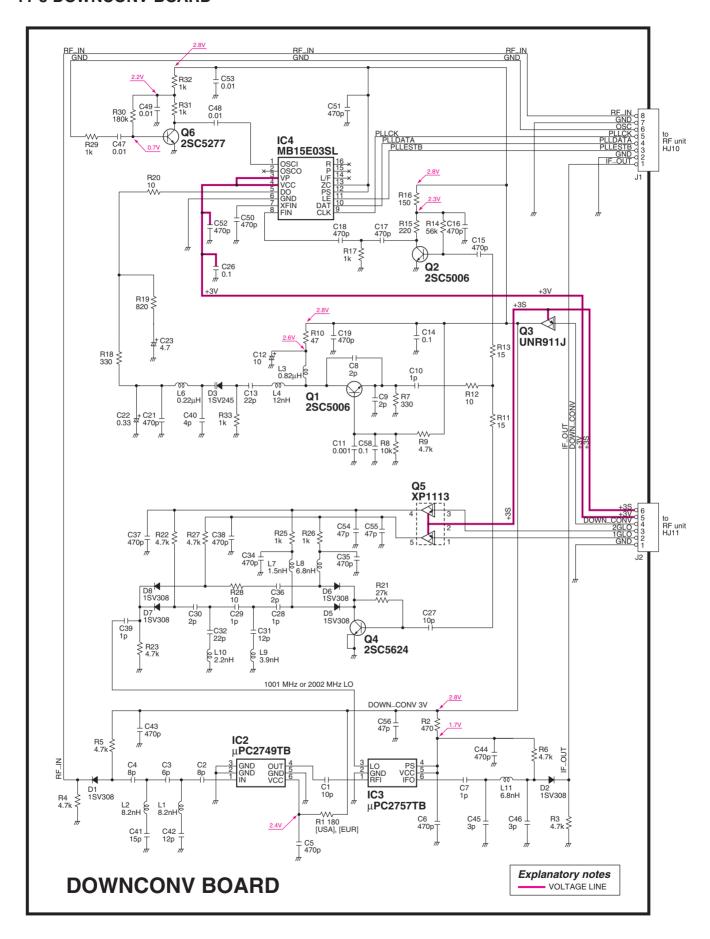
11-6 2NDCVCO BOARD



11-7 2NDDVCO BOARD



11-8 DOWNCONV BOARD



SECTION 12 BC-156 DESKTOP CHAGER INFORMATION

12-1 DISASSEMBLY INFORMATION

[CHASSIS PARTS]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8930062600	2708 holder	1
MP2	8110007620	2505 cover	1
MP3	8810009990	Screw PH BT M3 X 8 ZK	8
MP4	8930039620	Stand/leg cushion (A)	2
MP5	8930051010	2308 terminal holder	1
MP6	8930051020	2308 A-terminal Y490	3
MP7	8930051030	2308 B-terminal	3
MP8	8010019600	2505 case (D)	1

[MAIN UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
J1	6450000410	Connector HEC0470-01-630	1
F1	5210000040	Fuse FGB 2A (FGB0 125V)	1
F2	5220000020	Fuse holder S-N5051	1
F3	5220000020	Fuse holder S-N5051	1
WS1	8600036620	OTHER EX2308 PD1* J04MA	1

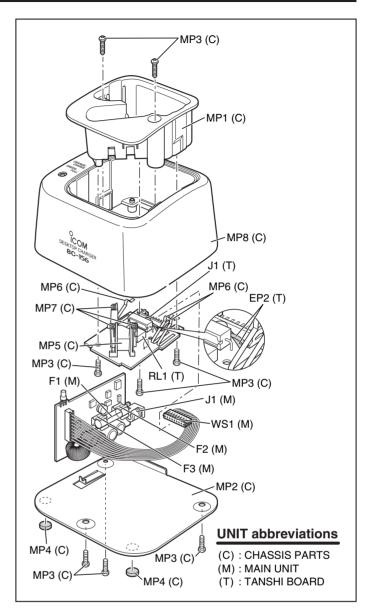
[TANSHI BOARD]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
J1	6510003570	Connector S09B-EH-S	1
EP2	9001602001	IRRAX 0.7 (d) L=10mm	2
RL1	6330001630	Relay A-5W-K	1

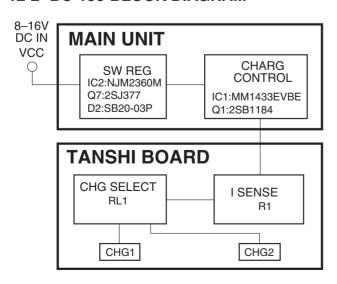
[ACC ACCESSORIES]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
EP1		BC-123A (LS-11033-ADT) w/box SKT [EUR] BC-123E (LS-11030-ADT) w/box SKT [UK]	1
	000003430	BC-123E (L3-11030-AD1) W/D0X 3K1 [UK]	'

Screw abbreviations BT: Self-tapping PH: Pan head ZK: Black

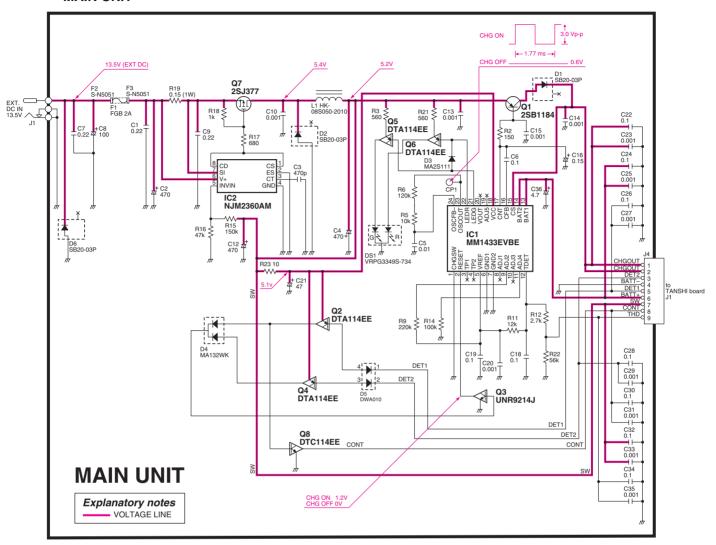


12-2 BC-156 BLOCK DIAGRAM

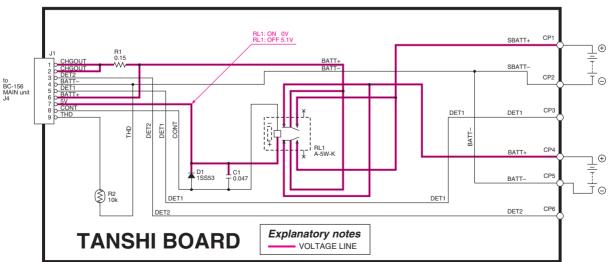


12-3 BC-156 VOLTAGE DIAGRAM

MAIN UNIT

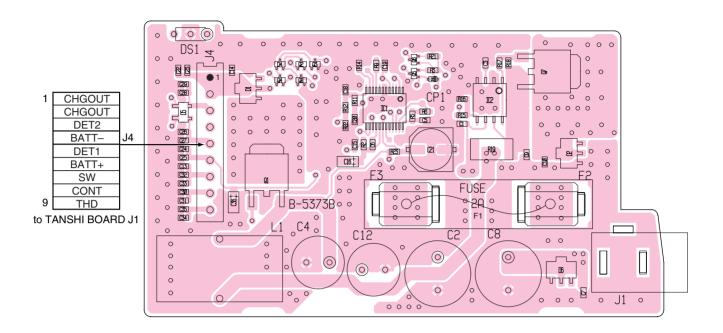


• TANSHI BOARD

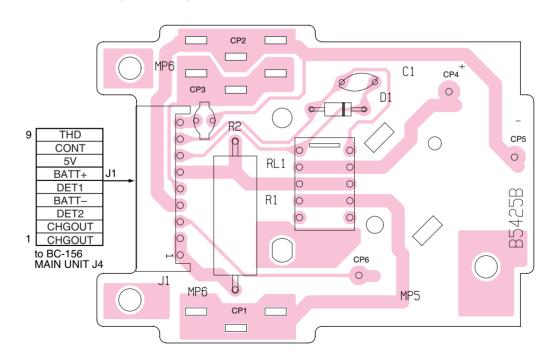


12-4 BC-156 BOARD LAYOUTS

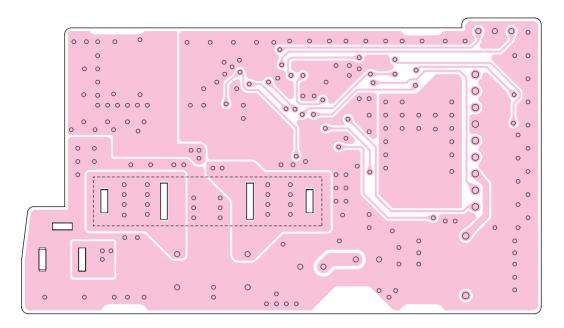
• MAIN UNIT (TOP VIEW)



• TANSHI BOARD (TOP VIEW)



• MAIN UNIT (BOTTOM VIEW)



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